

SK5.0L



Service Manual

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Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

- 1.1 Technical Specifications
- 1.2 Connection Overview
- 1.3 Chassis Overview (Mechanical chassis)

Note: Data below can deviate slightly from the actual situation, due to the different set executions.

1.1 **Technical Specifications**

1.1.1 Vision

Display type : CRT

: 29" (72 cm), 4:3 Screen size

Tuning system : PLL

TV Colour systems : NTSC, PAL M, N

Video playback : NTSC, Presets/channels : 181 channels

Tuner bands : VHF

: UHF

1.1.2 Sound

Sound systems : Stereo, SAP Maximum power (W_{RMS}) 2 x 5

Miscellaneous

Power supply:

- Mains voltage (VAC) : 100 - 240

- Mains frequency (Hz) : 50 / 60

Ambient conditions:

- Temperature range (°C) : -5 to +45 - Maximum humidity 90% R.H.

Power consumption

- Normal operation (W) : ≈ 105 - Stand-by (W) : < 3

1.2 **Connection Overview**

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, and Ye= Yellow.

Rear and Side Connections

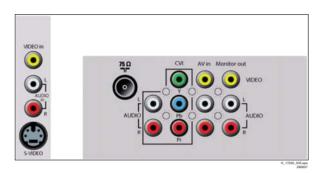


Figure 1-1 Rear and Side Connections

Aerial - In F-connector	Coax, 75 ohm	D
Cinch: Video YPbPi	r - In	
Gn - Video Y Bu - Video Pb Rd - Video Pr Wh - Audio L Rd - Audio R	1 V _{PP} / 75 ohm 0.7 V _{PP} / 75 ohm 0.7 V _{PP} / 75 ohm 0.5 V _{RMS} / 10 kohm 0.5 V _{RMS} / 10 kohm	j q j q j q j q
Cinch: Video CVBS Ye - Video CVBS Wh - Audio L Rd - Audio R	- In, Audio - In 1 V _{PP} / 75 ohm 0.5 V _{RMS} / 10 kohm 0.5 V _{RMS} / 10 kohm	j d j d
Cinch: Video CVBS Ye - Video CVBS Wh - Audio L Rd - Audio R	- <i>Out, Audio - Out</i> 1 V _{PP} / 75 ohm 0.5 V _{RMS} /10 kohm 0.5 V _{RMS} / 10 kohm	k q k q k q

1.3 Chassis Overview (Mechanical chassis)

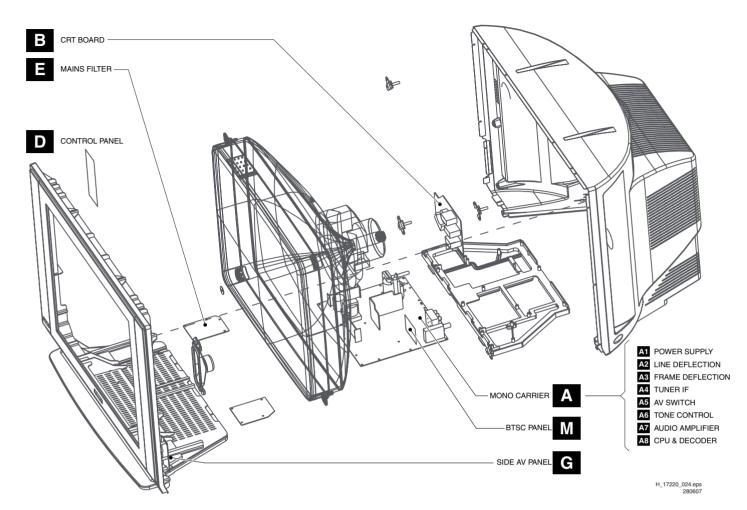


Figure 1-2 PWB location

Safety Instructions, Warnings, and Notes

Index of this chapter:

- 2.1 Safety Instructions
- 2.2 Maintenance Instructions
- 2.3 Warnings
- 2.4 Notes

2.1 Safety Instructions

Safety regulations require the following during a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol h only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.
- Wear safety goggles when you replace the CRT.

Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- General repair instruction: as a strict precaution, we advise you to re-solder the solder connections through which the horizontal deflection current flows. In particular this is valid
 - 1. Pins of the line output transformer (LOT).
 - 2. Fly-back capacitor(s).
 - S-correction capacitor(s).
 - 4. Line output transistor.
 - 5. Pins of the connector with wires to the deflection coil.
 - 6. Other components through which the deflection current

Note: This re-soldering is advised to prevent bad connections due to metal fatigue in solder connections, and is therefore only necessary for television sets more than two years old.

- Route the wire trees and EHT cable correctly and secure them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function, to prevent the cord from touching the CRT, hot components, or heat sinks.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
 - 1. Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
 - Set the Mains/AC Power switch to the "on" position (keep the Mains/AC Power cord unplugged!).
 - Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
 - 4. Switch "off" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 **Maintenance Instructions**

We recommend a maintenance inspection carried out by qualified service personnel. The interval depends on the usage conditions:

- When a customer uses the set under normal circumstances, for example in a living room, the recommended interval is three to five years.
- When a customer uses the set in an environment with higher dust, grease, or moisture levels, for example in a kitchen, the recommended interval is one year.
- The maintenance inspection includes the following actions:

- 1. Perform the "general repair instruction" noted above.
- Clean the power supply and deflection circuitry on the
- Clean the picture tube panel and the neck of the picture

2.3 Warnings

In order to prevent damage to ICs and transistors, avoid all high voltage flashovers. In order to prevent damage to the picture tube, use the method shown in figure "Discharge picture tube", to discharge the picture tube. Use a high voltage probe and a multi-meter (position V_{DC}). Discharge until the meter reading is 0 V (after approx. 30 s).

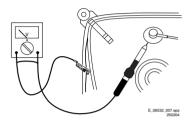


Figure 2-1 Discharge picture tube

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD w). Careless handling during repair can reduce life drastically. Make sure that. during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential.
- Be careful during measurements in the high voltage
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and prevents circuits from becoming unstable.

2.4 **Notes**

2.4.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (H), or hot ground (I), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (D) and without (E) aerial signal. Measure the voltages in the power supply section both in normal operation (G) and in stand-by (F). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. "Dolbv", "Pro Logic" and the "double-D symbol", are trademarks of Dolby Laboratories.

2.4.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads (μ = x10⁻⁶), nano-farads (n= $x10^{-9}$), or pico-farads (p= $x10^{-12}$).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.4.3 Lead-free Soldering

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
 - To reach a solder-tip temperature of at least 400°C.
 - To stabilize the adjusted temperature at the solder-tip.
 - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilized at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch "off" unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly to

Directions for Use

3.

You can download this information from the following websites: http://www.philips.com/support http://www.p4c.philips.com

avoid mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.

Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-2) is composed. From this date on, the third digit in the serial number (example: AG2B0335000001) indicates the number of the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s. By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used. If the third digit of the serial number contains the number 1 (example: AG1B033500001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG2B0335000001), then there are two different B.O.M.s. Information about this is important for ordering the

For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

Practical Service Precautions

correct spare parts!

- It makes sense to avoid exposure to electrical shock. While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- Always respect voltages. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

EN 6

4.

Mechanical Instructions

Index of this chapter:

- 4.1 Set Disassembly
- 4.2 Assembly / Board Removal
- 4.3 Set Re-assembly

Note: Figures below can deviate slightly from the actual situation, due to the different set executions.

4.1 Set Disassembly

Follow the disassemble instructions in described order.

4.1.1 Rear Cover Removal

Warning: disconnect the mains power cord before you remove the rear cover.

- 1. Remove all the fixation screws of the rear cover.
- 2. Now, pull the rear cover backwards and remove it.

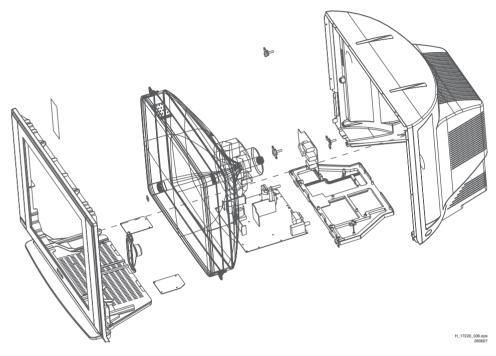
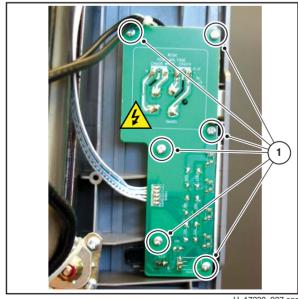


Figure 4-1 Rear Cover removal

4.2 Assembly / Board Removal

4.2.1 Power Switch and Control Panel removal

- From the mono carrier disconnect the main power and the keyboard circuit cables. Release the main power cord and the keyboard circuit cable from it's strain reliefs.
- 2. Then, remove the six fixation screws [1] of the power switch and control panel and remove the board.

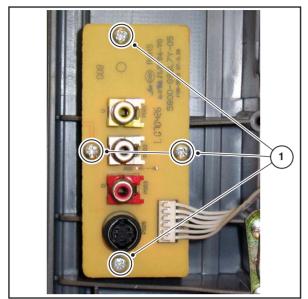


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Figure 4-2 Power Switch and Control Panel removal

Mechanical Instructions

4.2.2 Side I/O Panel removal



H_17220_023.eps 210607

Figure 4-3 Side-I/O panel removal

- 1. Disconnect the side panel cable from the mono carrier and remove the cable from it's strain reliefs.
- Then, remove the four fixation screws [1] and remove the board.

4.3 **Set Re-assembly**

To re-assemble the whole set, do all processes in reverse order.

Be sure that, before the rear cover is mounted:

- The mains cord is positioned correctly in its guiding brackets (make sure that the strain reliefs are replaced in its correct position and that it will function correctly!).
- All wires/cables are returned in their original positions.

Service Modes, Error Codes, and Fault Finding

Index of this chapter:

- 5.1 Test Points
- 5.2 Service Modes
- 5.3 Error Codes
- 5.4 Fault Finding

5.1 **Test Points**

See chapter 6 "Block Diagrams, Testpoint Overviews, and Waveforms"

SK5.0I CA

Perform measurements under the following conditions:

- Service Default Mode.
- Video: colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

5.2 **Service Modes**

This chassis does not contain a specific Service Mode. Service and Alignment of the TV set can be done via the Factory Mode by the service technician, see further down in this manual.

5.3 **Error Codes**

Not applicable.

5.4 **Fault Finding**

Power on Failure 5.4.1

Check whether the power supply is working properly and whether the values of voltages normal. If those are correct, check line transistor and transformer are working properly or check fore or back line for defects.

Horizontal Deflection Transistor Defective: No Picture, No Sound.

To find the fault for a defect horizontal deflection transistor please check the following items:

- Over voltage to breakdown.
- Over current to burn.
- Horizontal frequency too low.
- Horizontal drive inefficient.

Picture Interference

- Check if the signal line contact is good.
- Change Tuner if is necessary.

Can't find any TV program

Checking method: Check the closed circuit from tuner to picture decoder IC to detect whether there are defective components. Or check whether the resistance of R117, R118, R203 and R204 has increased which also could cause the problem.

No Good Picture or Double Image

Check the correctness of the signal from IF1/IF2 to Q101 and relevant circuit. In this case the problem can be Q101 and/or SAW101.

5.4.6 Picture not or incorrect Coloured

- Check the circuit from IC201 to R.G.B. three gun circuit.
- Check the IC soldering and relevant circuitry on physical damage or check for defective capacitors.

Picture with Horizontal Bright Line and Sound

Check both supply voltages of vertical IC301 and relevant circuitry on correctness. Also check the vertical synchronizing signal from IC201.

Remote Control Malfunction

Check the voltage on pin 64 of IC201. The normal value should be 5.15 V. If this is correct check front control panels soldering connections. If can't be solved, check the remote control, crystal or transmitting diode of the remote control are in good condition.

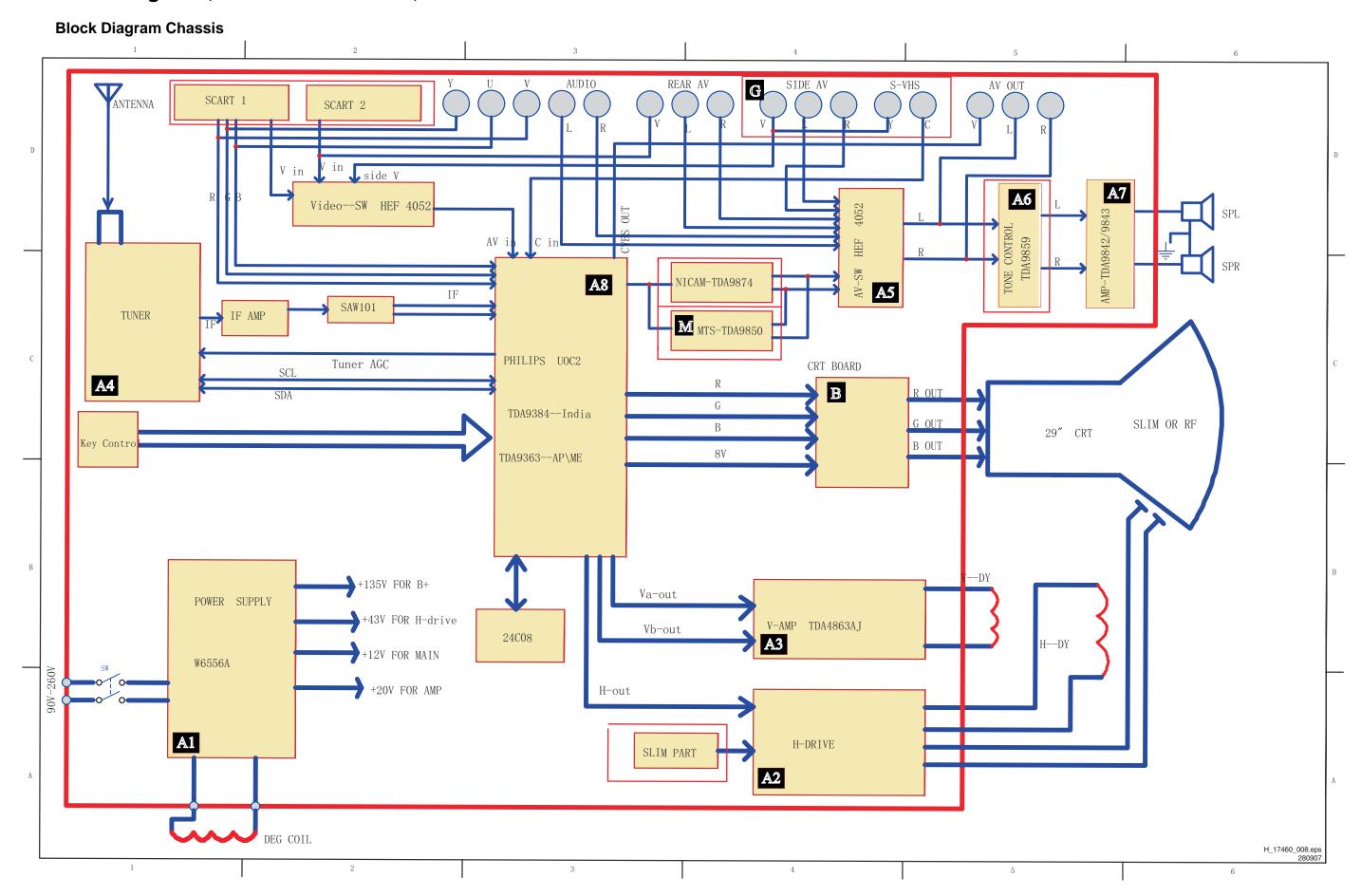
5.4.9 No Sound

Check power supply of sound IC (IC402) and relevant circuitry. Check as well the BTSC board, check the power supply of IC801 and relevant output signal pins 21 and 27 of this IC. Do not exclude IC801 and/or IC402 to be defective. If needed replace the speakers.

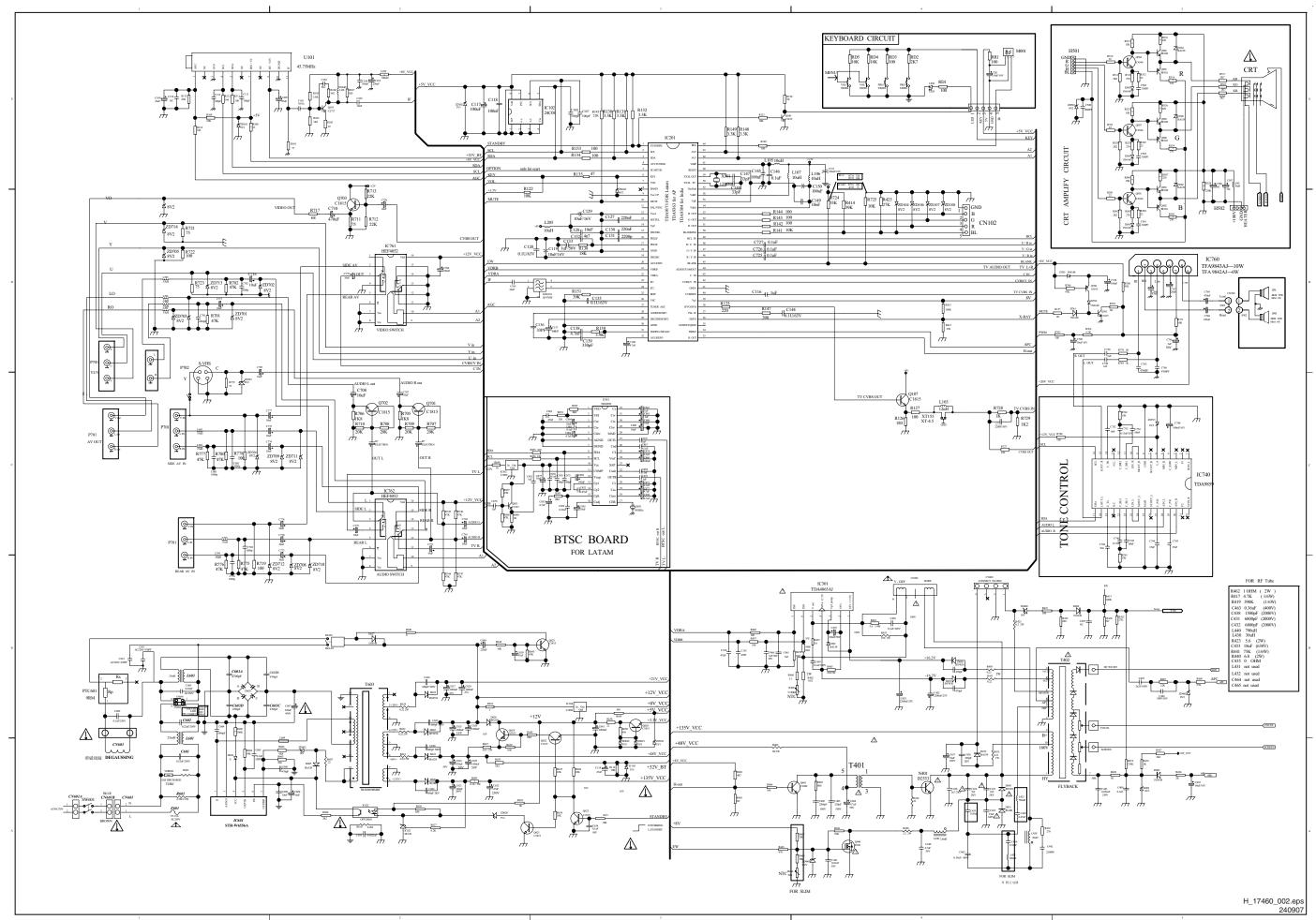
5.4.10 Poor Sound Quality

Check the sound system after searching the channel which should set at NTSC or AUTO. If still has problem, check accompany board circuit on chassis good or not.

6. Block Diagrams, Test Point Overview, and Waveforms

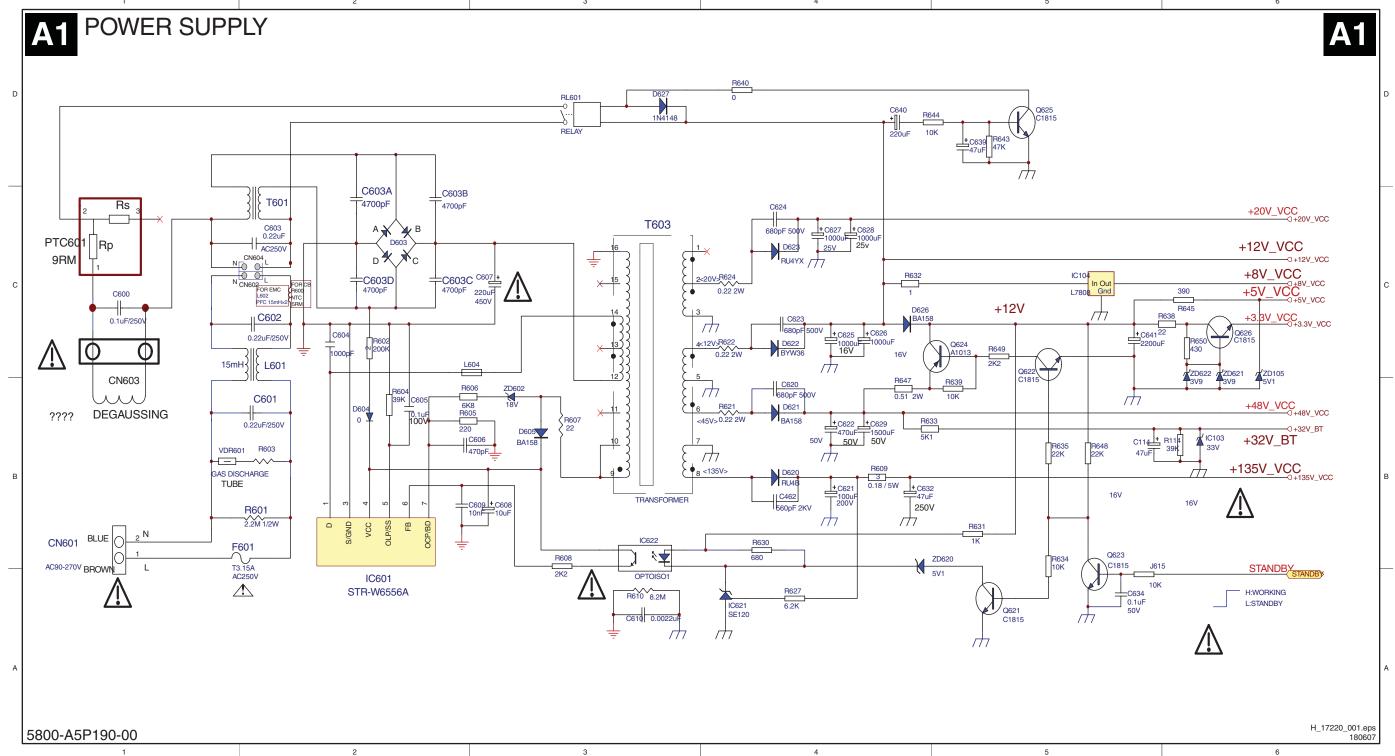


Schematic Overview Chassis

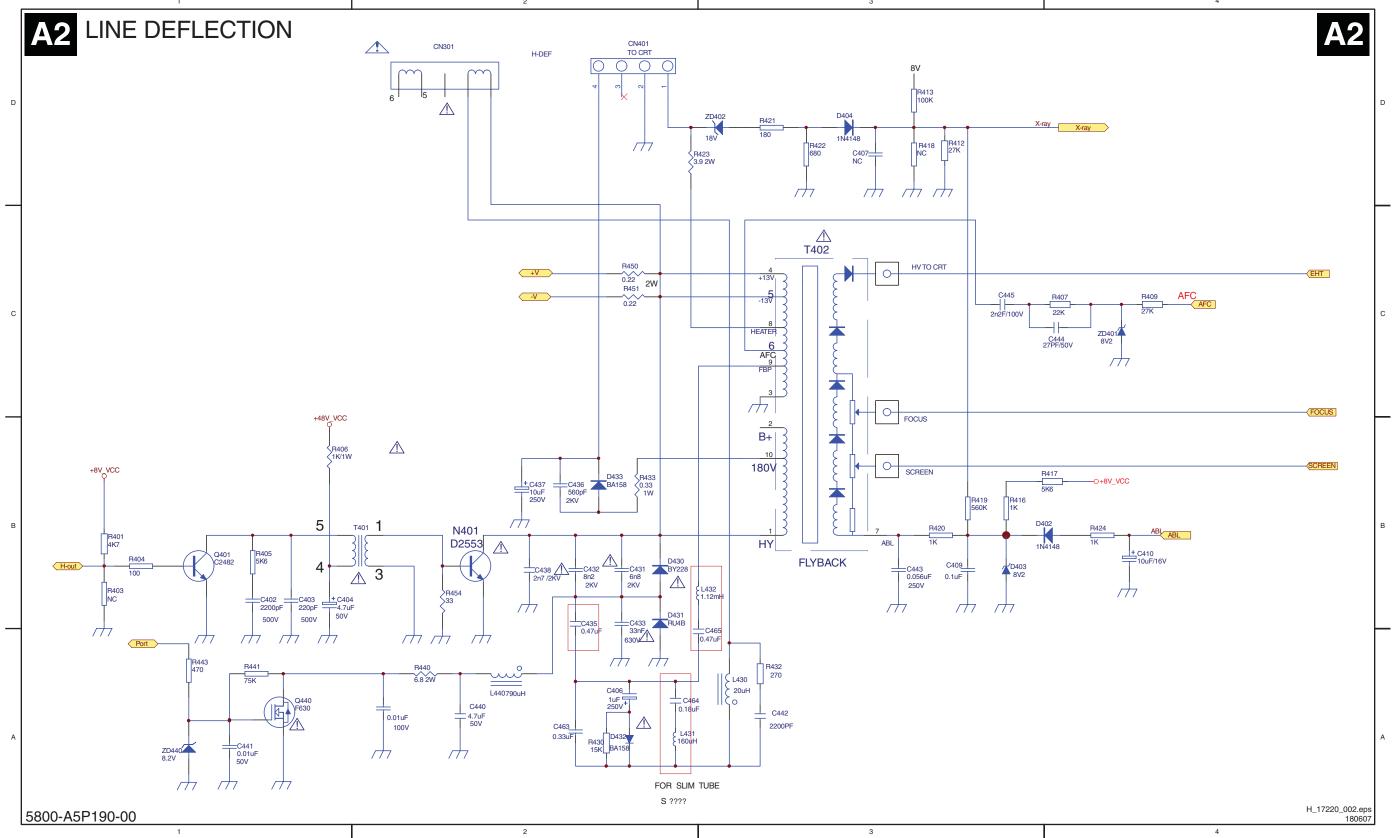


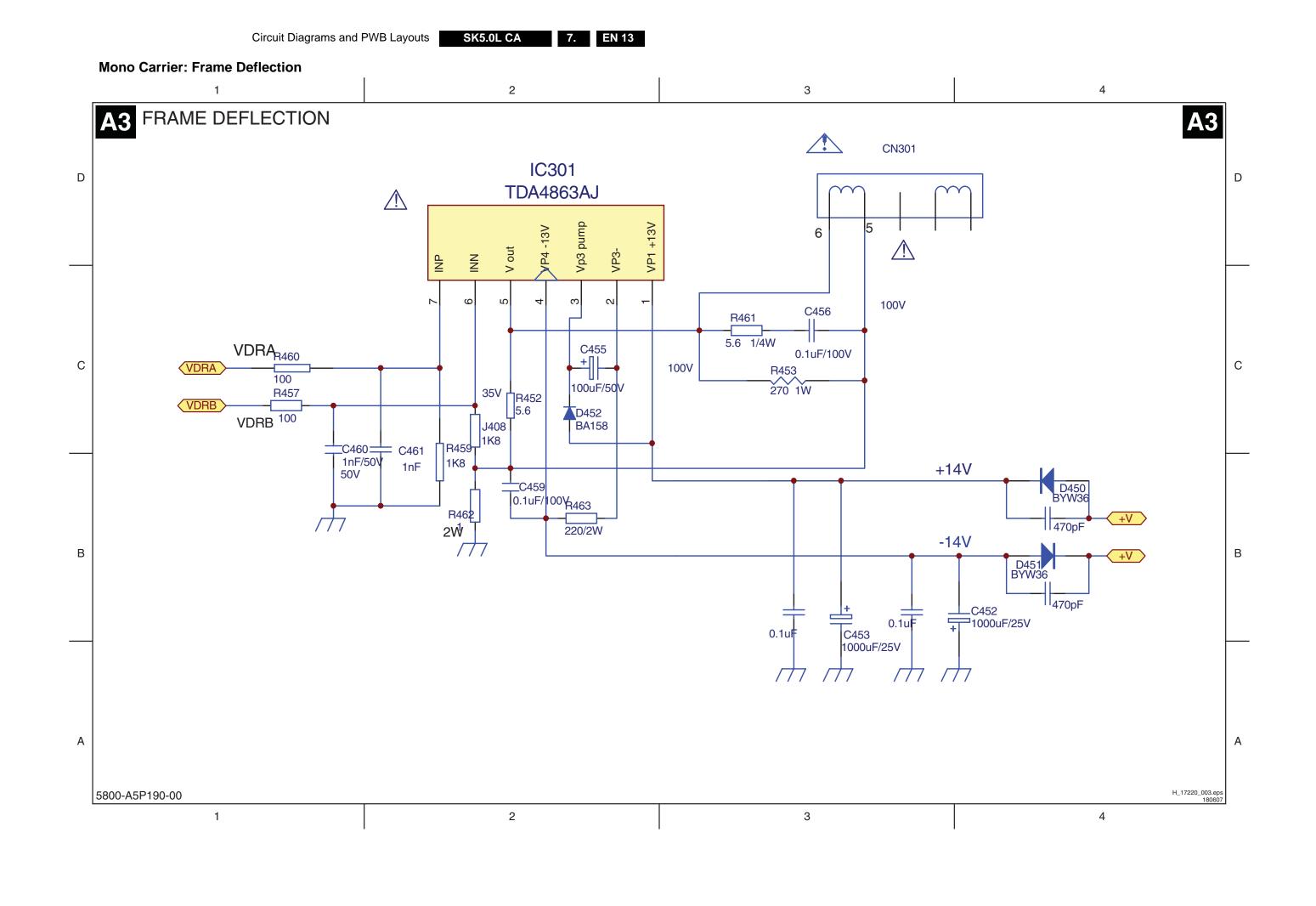
7. Circuit Diagrams and PWB Layouts

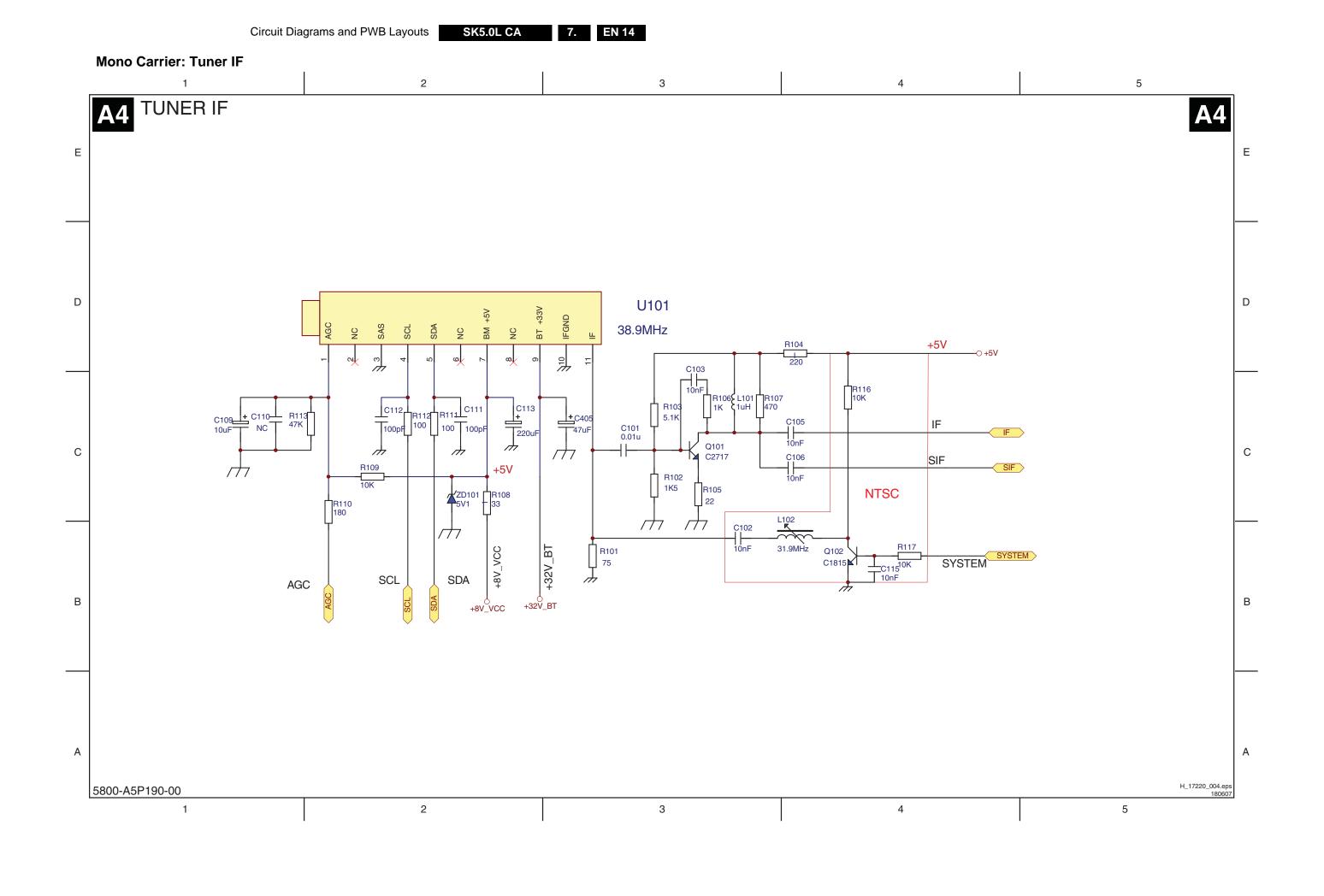
Mono Carrier: Power Supply

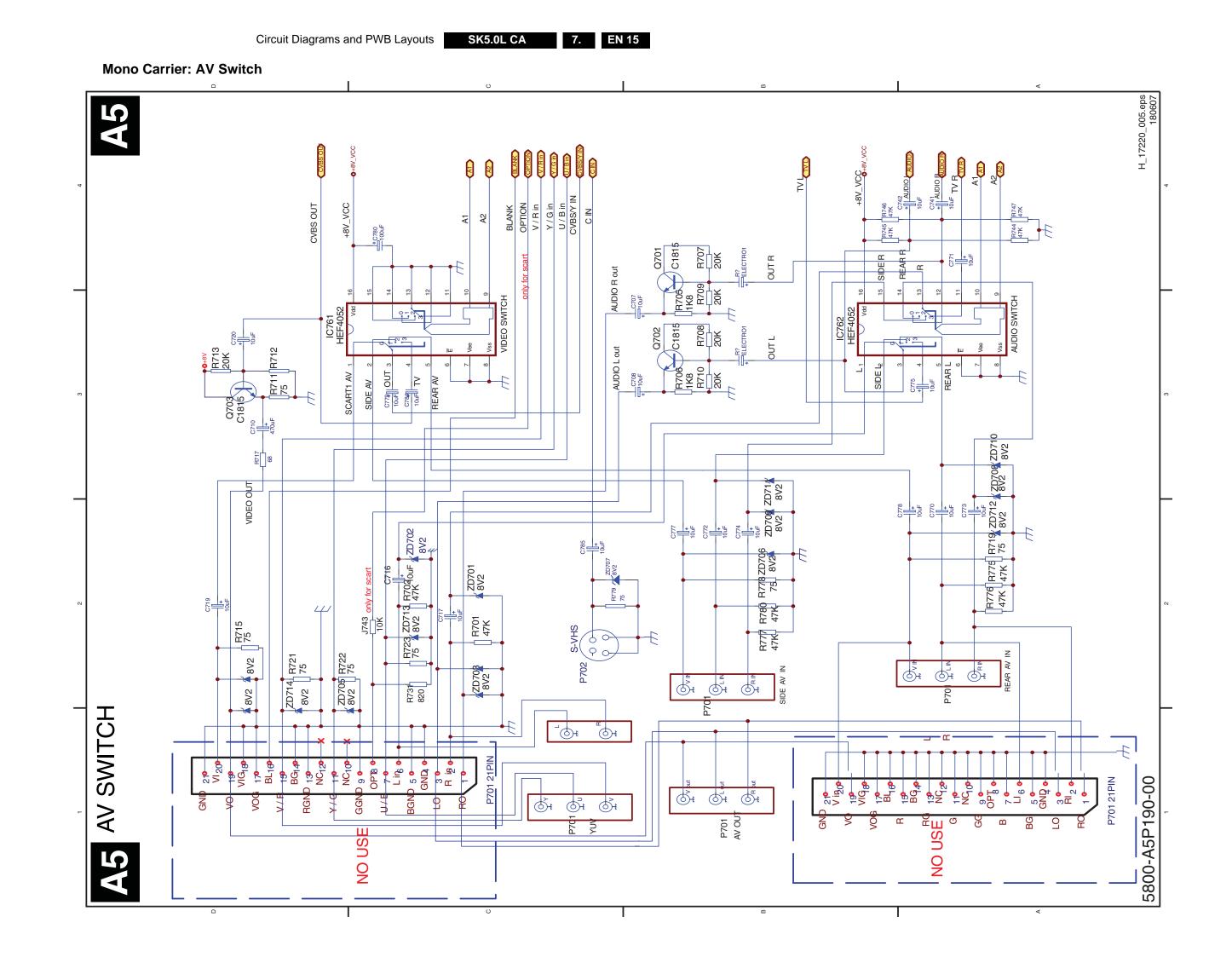


Mono Carrier: Line Deflection



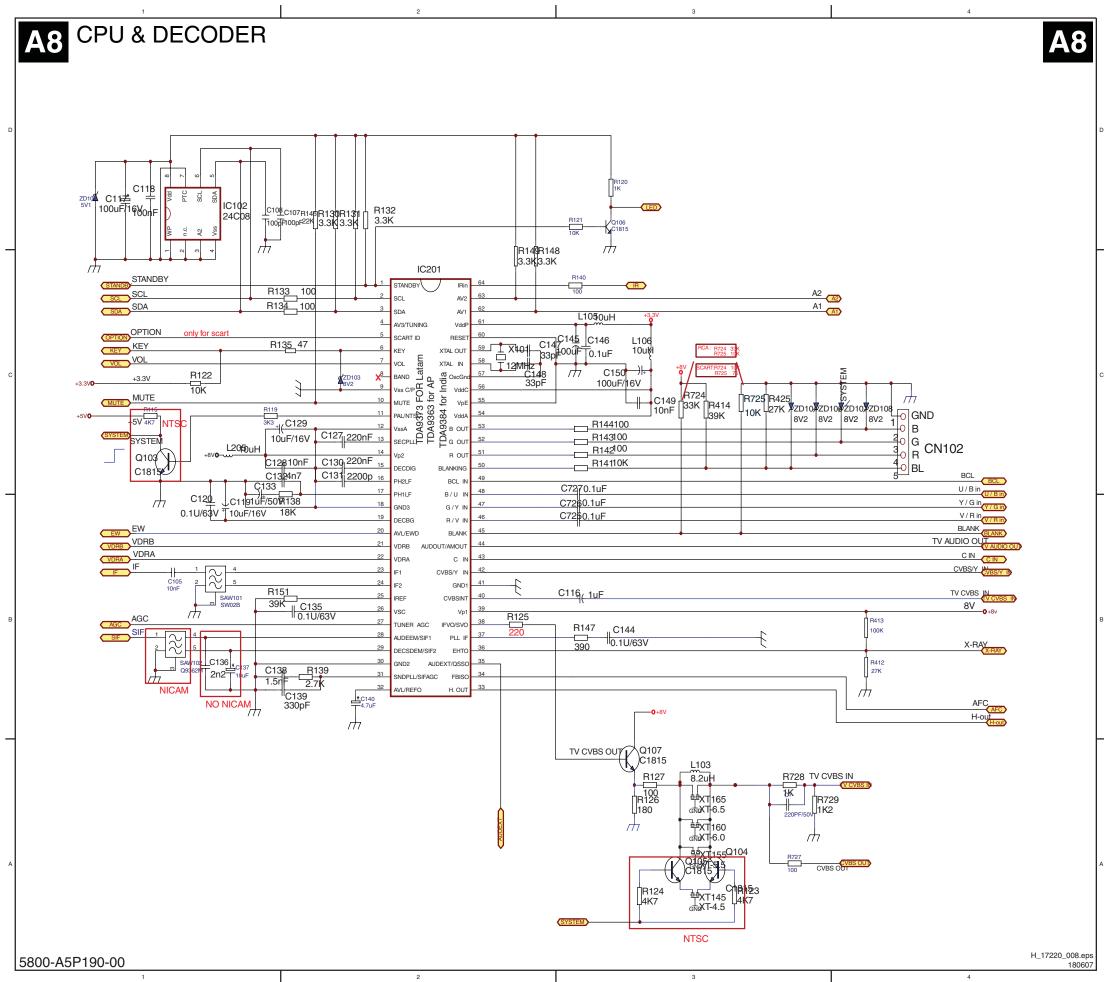




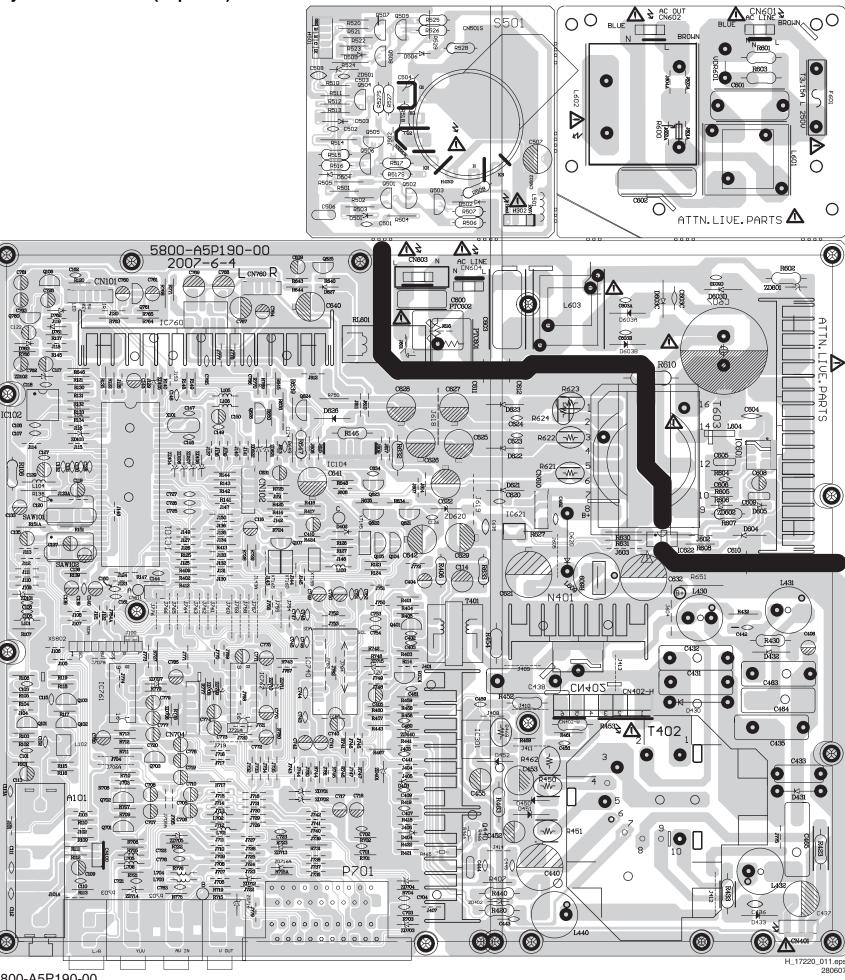


Circuit Diagrams and PWB Layouts SK5.0L CA **Mono Carrier: Audio Amplifier** 2 3 4 A7 AUDIO AMPLIFIER D D IC760 TFA9843AJ---10W TFA 9842AJ---6W D763 IN4148 + C728 100uF R768 100K Q760 A1015 C764 47u CN760 Lout C769 4RM 10V 8RM 6W 470uF С С **→** D762 R765 1N4148 MUTE Q761 TK 1N4148 C1815 C768 4RM 10W R771 10K 470uF R764 10K PWM +C760 10uF/16V C761 + 1uF 50V C750 R770 1K 1uF R OUT R7691K C765 C766 4700PF 4700PF +20V_VCC A6 Tone Control IC740 TDA9859 H_17220_007.eps 180607 5800-A5P190-00 2 3 4

Mono Carrier: CPU & Decoder



Layout Mono Carrier (Top Side)



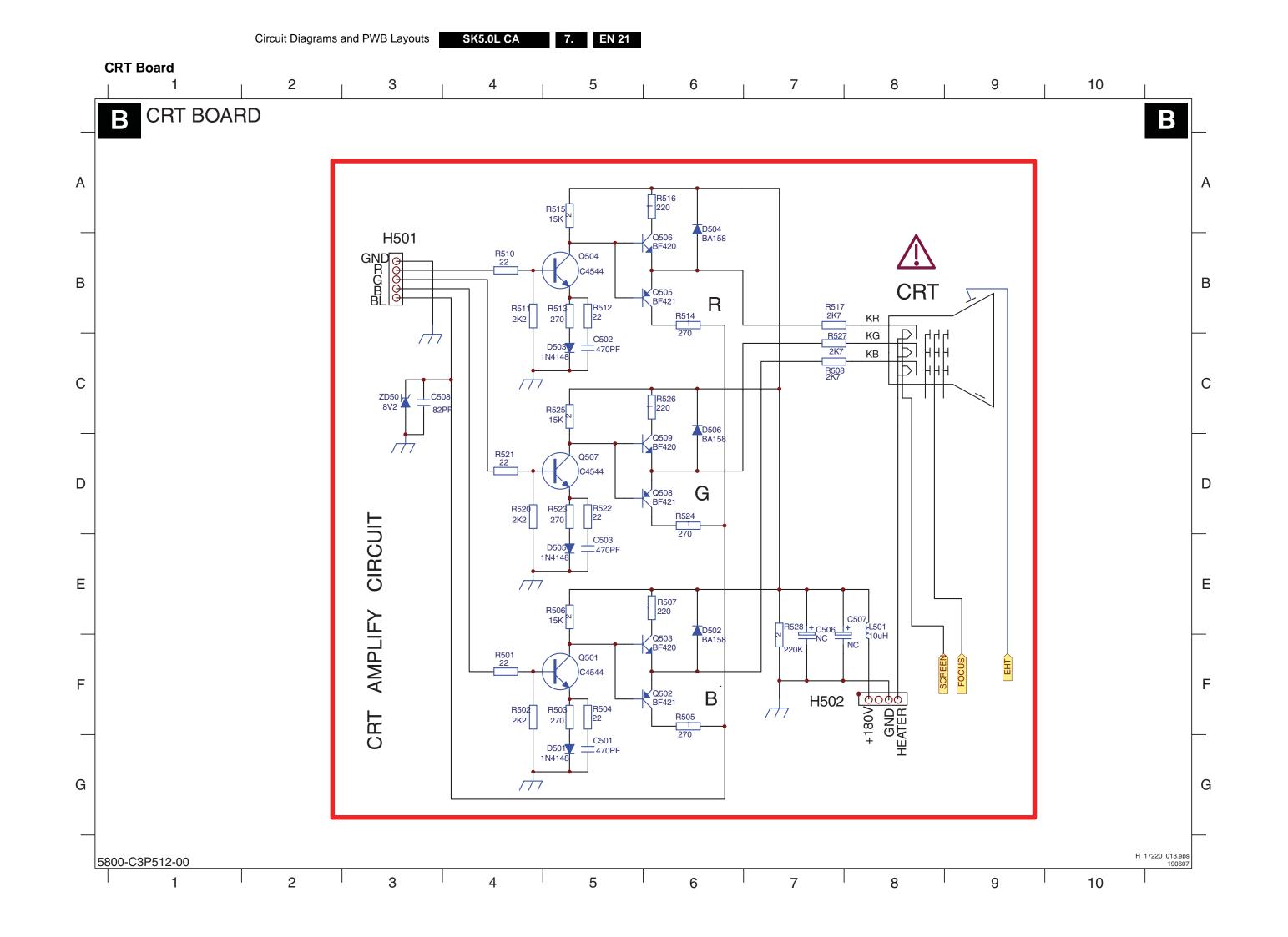
CH401A (S)

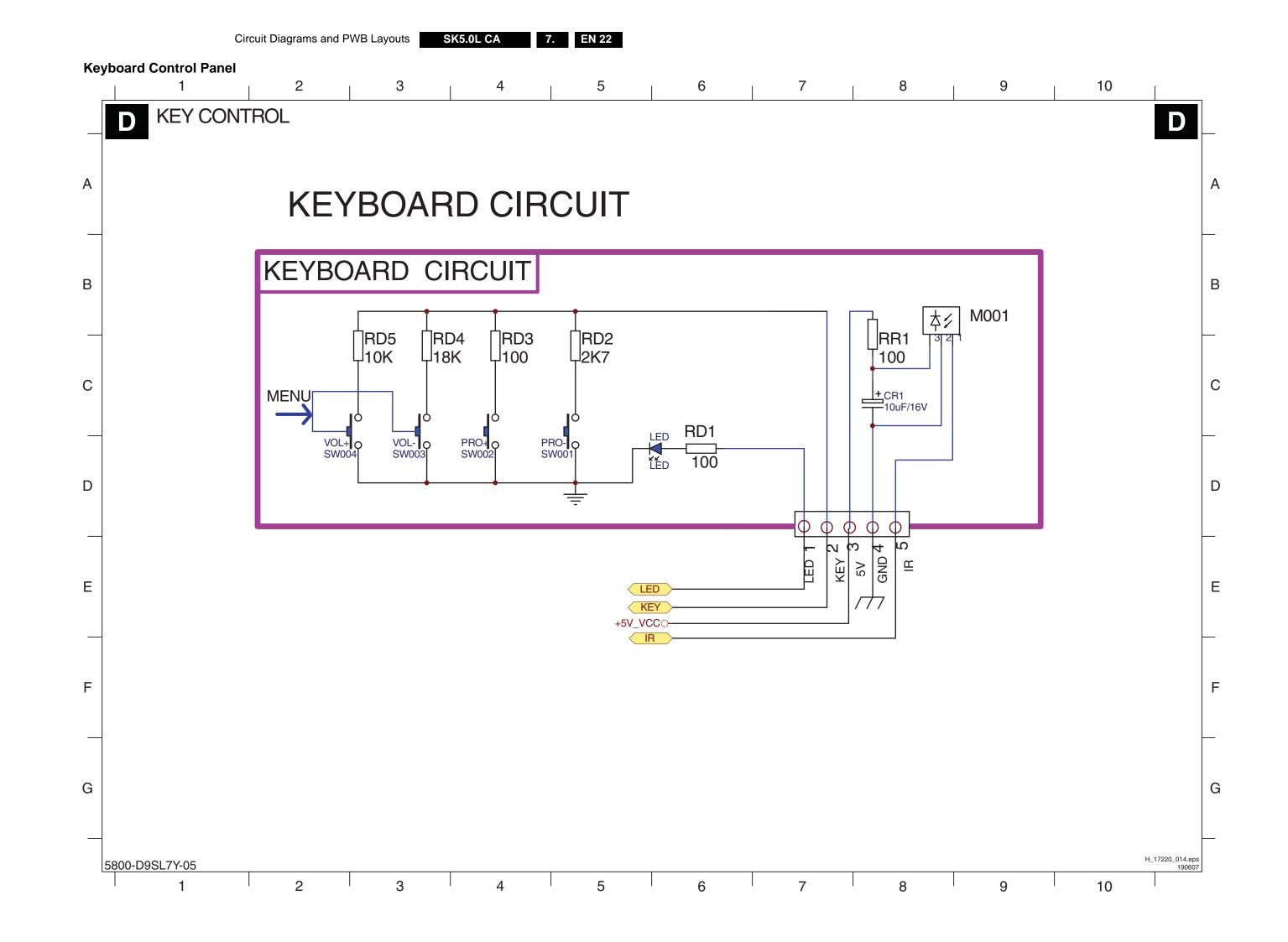
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P701

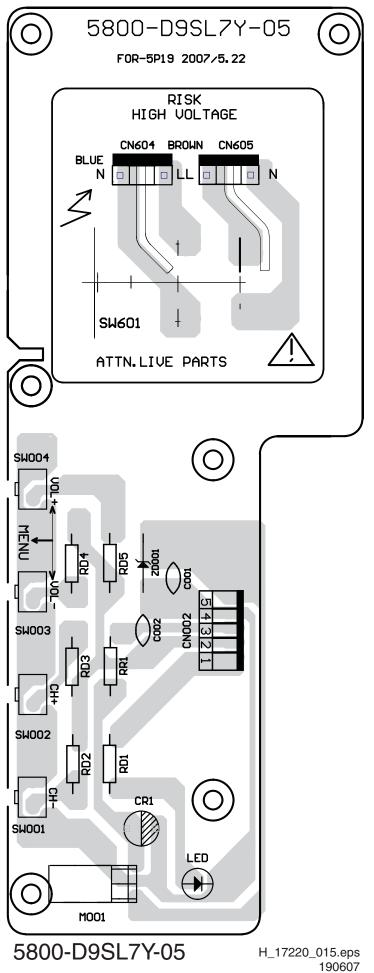
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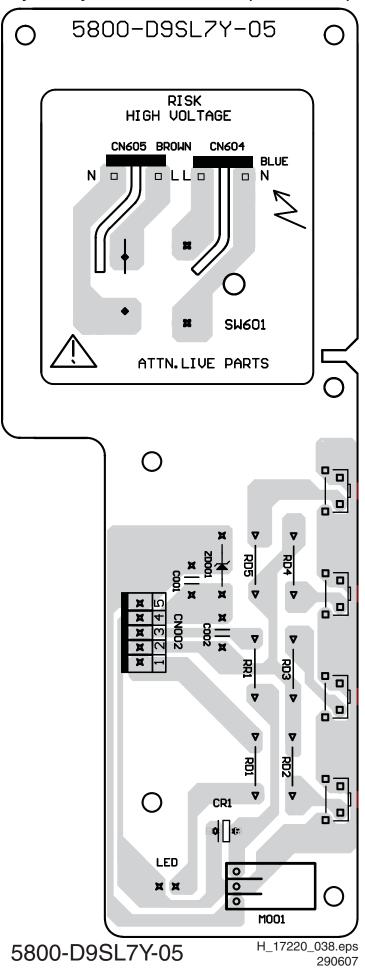




Layout Keyboard Control Panel (Top Side)

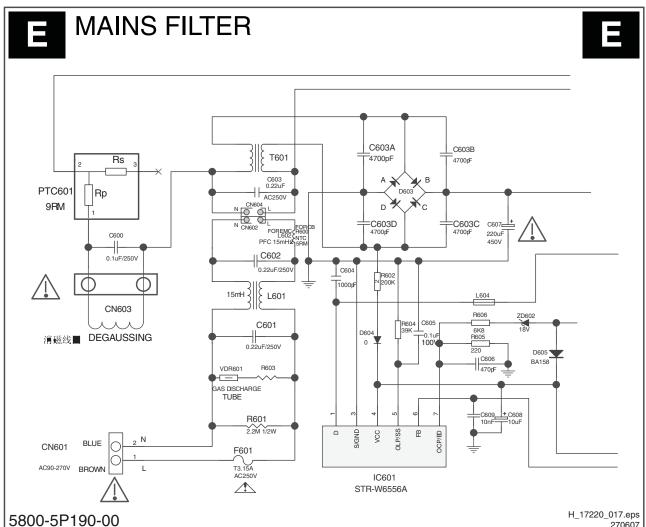


Layout Keyboard Control Panel (Bottom Side)

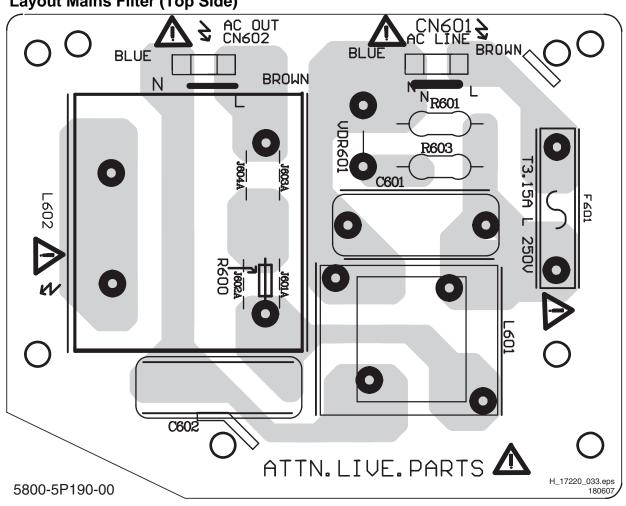


Circuit Diagrams and PWB Layouts SK5.0L CA 7. EN 24

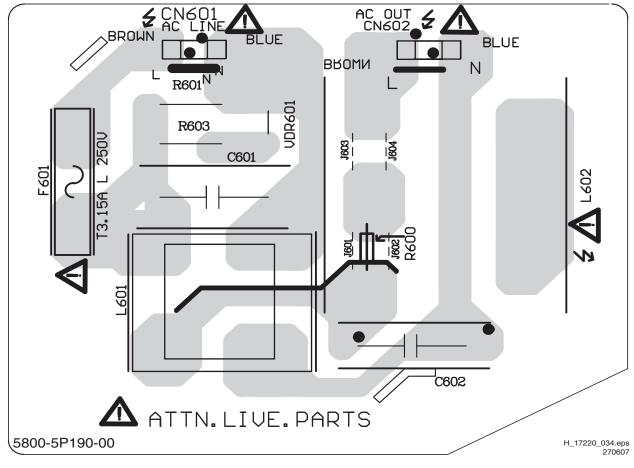
Mains Filter Panel



Layout Mains Filter (Top Side)



Layout Mains Filter (Bottom Side)

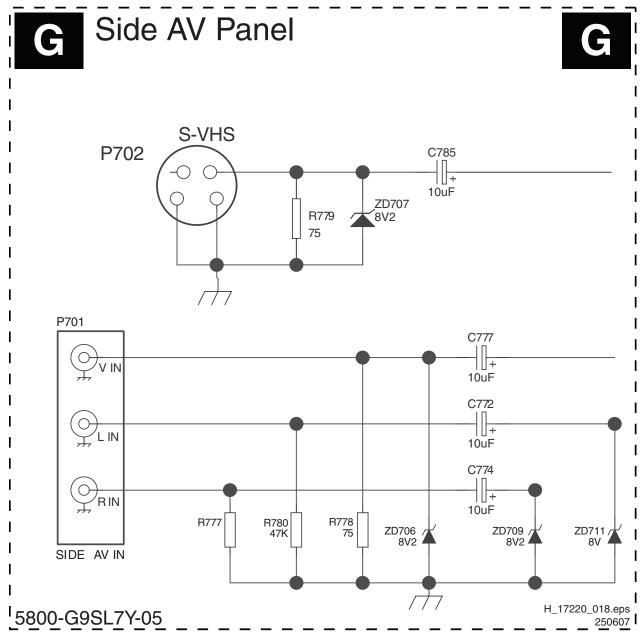


Circuit Diagrams and PWB Layouts

SK5.0L CA

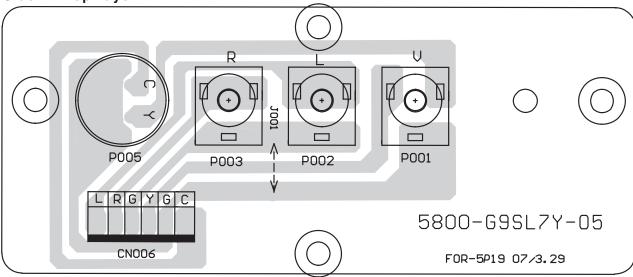
7. EN 25

Side A/V Panel

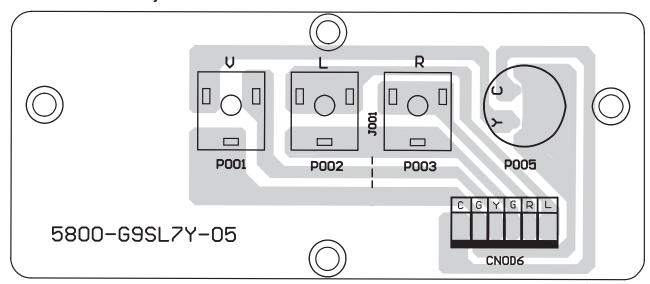


Layout Side A/V Panel

Side AV Top Layer

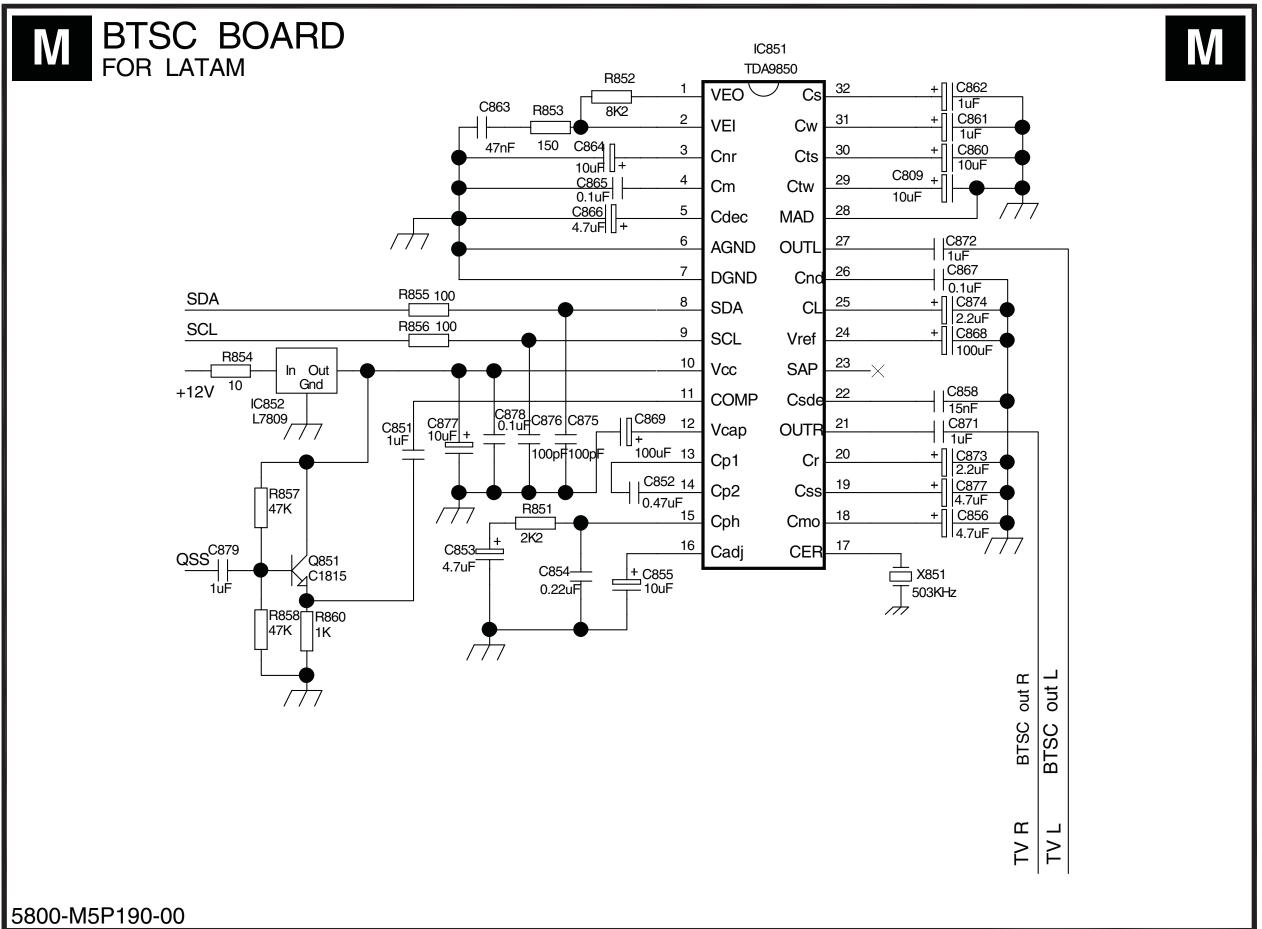


Side AV Bottom Layer



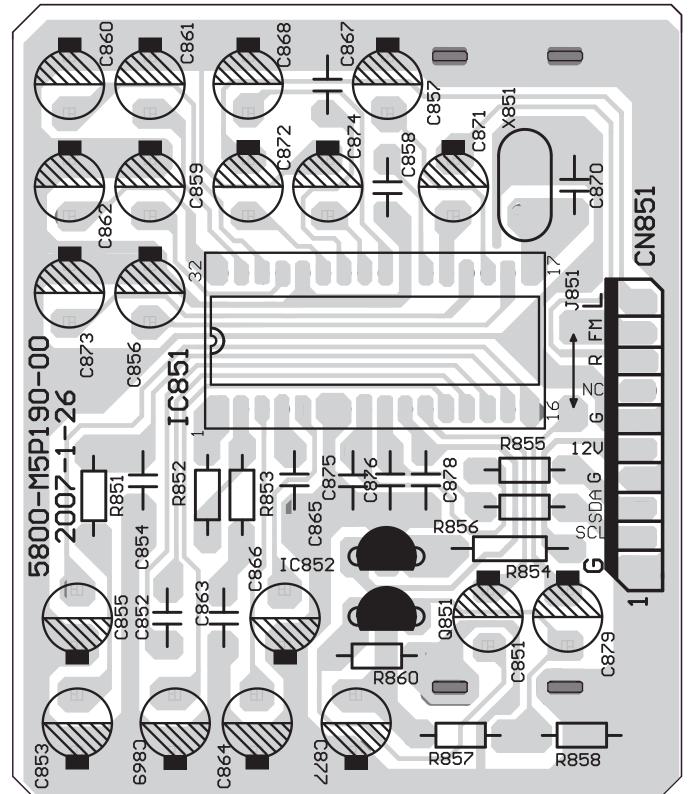
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BTSC Panel

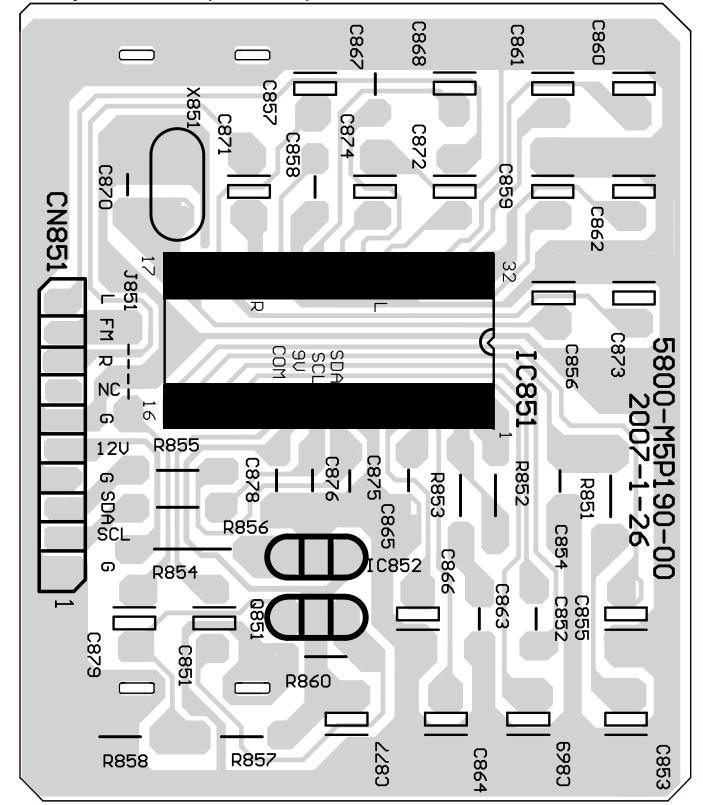


Layout BTSC Panel (Top Side)

5800-M5P190-00



Layout BTSC Panel (Bottom Side)



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SK5.0L CA 7. EN 28

Circuit Diagrams and PWB Layouts

8. Alignments

Index of this chapter:

- 8.1 General Alignment Conditions
- 8.2 Hardware Alignments
- 8.3 Software Alignments
- 8.4 Factory mode Settings

8.1 General Alignment Conditions

8.1.1 Default Alignment Settings

Perform all electrical adjustments under the following conditions:

- Power supply voltage: 230 V_{AC} / 50 Hz (± 10%).
- Connect the set to the mains via an isolation transformer with low internal resistance.
- Allow the set to warm up for approximately 20 to 30 minutes.
- Measure voltages and waveforms in relation to chassis ground (with the exception of the voltages on the primary side of the power supply).

Caution: never use heatsinks as ground.

- Test probe: 100: 1, Ri > 10 Mohm, Ci < 3.5 pF.
- Use an isolated trimmer/screwdriver to perform alignments.

8.2 Hardware Alignments

For this TV set there are no hardware alignments.

8.3 Software Alignments

Put the set in its MENU mode (factory mode) as follows (see also figure "Factory Mode" on the next page):

- Press the keys [i+], "smart sound" and "smart picture" to enter the factory menu.
- Press the keys [i+] again and "ADJUST" appear on screen.
- Press the number keys to enter the adjust page, press B / y to choose the items that to be adjusted, Press z /A to adjust its value.
- Press [i+] to quit factory mode.

The different alignment parameters are described further on.

8.3.1 Rf AGC Voltage Adjust

- 1. Provide a 294.25 MHz, 60 dB half colour bar signal.
- 2. Enter factory mode and press key 1.
- Measure tuner AGC point voltage, adjust AGC item till the voltage is 2.2 V, or till picture noise just disappears. (typical value is at 32).

8.3.2 Focus Fine Adjust

- 1. Provide a cross-hatch pattern signal.
- 2. Set state to "Rich" mode.
- 3. Adjust flyback transformers Focus knob till picture is clear.

8.3.3 Screen Voltage Adjust

- 1. Set picture to "Standard" mode, without signal input.
- Press the keys [i+], "Smart sound" and "Smart picture" to enter the factory menu. When in "B/W BALANCE" page, press "mute" on the RC. There will be a level light line displays.
- 3. Adjust flyback transformers Screen knob till the level bright line just can be seen.
- 4. When in the light-line screen, CUT R and CUT G can be adjusted if needed with the following RC key mapping: To increase /decrease CUT R (See table 8-1) To increase /decrease CUT G (See table 8-2)
- 5. Press "MUTE" key to return to the "B/W BALANCE" page.

Table 8-1 To increase /decrease CUT R

Function	CUT R+	CUT R-
RC key	1	4

Table 8-2 To increase /decrease CUT G

Function	CUT G+	CUT G-
RC key	2	5

8.3.4 Horizontal Adjustment (Key 1)

- 1. Provide a 50 Hz monoscope pattern.
 - Press the keys [i+], "Smart sound" and "Smart picture" to enter the factory menu.
 - Press the keys [i+] again and "ADJUST" appear on screen.
- Press key "0" and adjust "HPH" to set picture horizontal centre to CRT horizontal centre.

8.3.5 Vertical & YUV/RGB Horizontal Adjust (Key 2)

- Provide a 50 Hz cross hatch signal, set TV to standard mode. Adjust VSL so that half picture of the pane cross appears. The picture's vertical line is just at the bottom of the half picture. Adjust VSL to make the centre of the picture's vertical line and the kinescope are in superposition.
- Adjust VSI to obtain picture's vertical re-display ratio more than 90%.
- 3. Provide a 60 Hz cross hatch signal, do step 1 and 2 again to adjust.
- If necessary, fine adjust above items.

8.3.6 OSD Position (Key 4)

- Menu OSD position adjustment: Provide a 50/60 Hz cross hatch pattern. Put the set in MENU mode.
 - Press the keys [i+], "Smart sound" and "Smart picture" to enter the factory menu.
 - Press the keys [i+] again and "ADJUST" appears on screen.
- Press key 4 to enter the factory mode. Adjust VP and HP item, to obtain menu OSD at the centre of CRT screen.
- Provide a RGB or YUV cross hatch signal, set the TV in the standard mode, adjust "YUV OSD HS" till picture horizontal centre is at the CRT centre (optional).

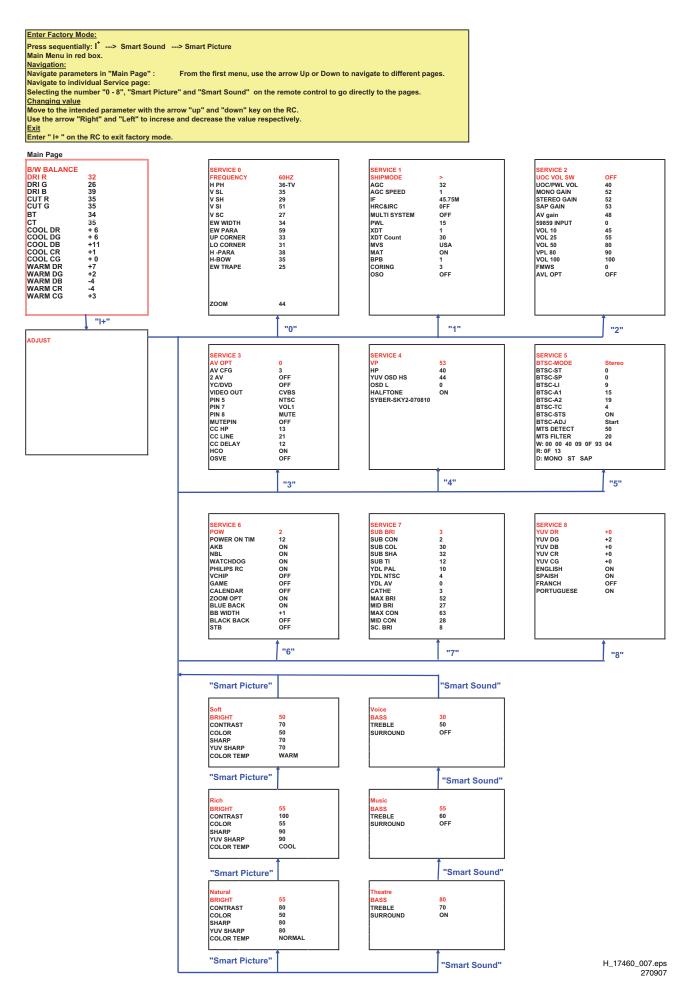


Figure 8-1 Software Alignments

Alignments

Factory mode Settings 8.4

With poor of Supplement	Description of the factory menu	Storage address	Display string	Range (Inde	x value)		Default	SK5.0L CA
Wine perial Budelment				,				
With profit Supprement								
Seach inter of sheet is adulaments								
Billion in the order of acclustments 0011 0.11 0.12 0.02 1.0 0.2 2.0								
SIGNIFINEST Of White Eletinon Activement pager learning 0.002								
CONTRINSA' 12** White Basener Augusteres pager setting CONTRINSA' 12** White pager at 10** DEC CONTRINSA' 12** DEC CONTRINSA								
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COOL Office according to PDR "Value of to, white point of PCOOL" 1997 1998 1			_					-
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COOLD OF INSERT STATE COOLD COOL							-	-
WARD for according to TRE IT value of tw. white point of 10 CDCLs 0.015 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016 WARD REAL SECRETOR (19 Table of tw. white point of 10 CDCLs) 0.016	•							-
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Warm Office according to "CUT G" value of tv, black level off-ear for "CODE" December 1975 December 1975 December 1975 December 2975 December 2975		0x01e	WARM DB	0-63			0	-6
Devert bey 1"	Warm offset according to "CUT R" value of tv, black level off-set R of "COOL"	0x01f	WARM CR	0-63			0	0
Firequency 0 Hz	Warm offset according to "CUT G" value of tv, black level off-set R of "COOL"	0x020	WARM CG	0-63			0	0
International content	Direct key "0"	I.	I.	I				I
Variotal spope	50hz/60hz		Frequency	60 Hz				
Varietial contents	Horizontal center	ox008	H PH	0-TV-63-TV			31-TV	33-TV
Varical a correction	Vertical slope	ox009	V SL	0-63			24	40
Vertical scorections	Vertical center	ox00a	V SH	0-63			21	28
EW WIDTH								
EM parabola-width	Vertical s-correction.	ox00c	V SC	0-63			27	27
British								
Dectors curve	EW parabola/width							
Horizontal parallelogram	EW upper/lower corner parabola							
Endizonnal bow								
EW Prapezium	, , ,							
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Frequency SO Hz	· · · · · · · · · · · · · · · · · · ·							
Horizontal center	•	0x0ed(bit4)					44	44
Vortical slope		0,,002					24 T\/	24 T)/
Varical center								
Vortical amplitude.								
Vertical s-correction.								
EW WIDTH 0x044 EW WIDTH 0-63 32 45 EW parabola/width 0x045 EW PARA 0-63 32 48 EW upperflower corner parabola 0x046 UP CORNER 0-63 32 32 Bottom curve 0x047 LO CORNER 0-63 32 32 Horizontal parallelogram 0x048 H-PARA 0-63 32 32 Horizontal bow 0x049 H-BOW 0-63 32 32 32 EW trapezium 0x04a EW TRAPE 0-63 32 32 32 EV trapezium 0x04a EW TRAPE 0-63 32 32 26 Expand 4:3 mode horizontal WIDTH adjust 0x062 ZOOM 0-63 44 44 44 Horizontal center in AV source. 0x069 H PH 45-AV 32 32 32 Horizontal center in YUV source. 0x05c H PH 40-YUV 32 32 32 Horizontal center in YUV source. 0x05c </td <td>·</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>	·		_					
EW parabola/width								
EW upper/lower corner parabola 0x046								
Bottom curve	· · · · · · · · · · · · · · · · · · ·			0-63				32
Horizontal parallelogram	<u> </u>	0x047	LO CORNER	0-63			32	32
Horizontal bow		0x048		0-63			32	
Expand 4:3 mode horizontal WIDTH adjust		0x049		0-63			32	32
Horizontal center in AV source.	EW trapezium	0x04a	EW TRAPE	0-63			32	26
Horizontal center in AV source.	Expand 4:3 mode horizontal WIDTH adjust	0x062	ZOOM	0-63			44	44
Horizontal center in YUV source.	Horizontal center in AV source.	0x05e	H PH	+5-AV			32	32
Horizontal center in YUV source. Dx05d H PH	Horizontal center in AV source.	0x05f	H PH	+5-AV			32	32
Direct key "1"								
Out of box setting, Smart Picture: Rich, Contrast +: On, NR: Off, Smart Sound: Theatre, Tuner Mode: Auto, Volume: 30, CC: Off SHIPMODE OFF ON 24 32 RF.AGC adjust 0x00d (bit5, bit4) AGC SPEED 0-63 1 1 1 AGC speed 0x0dd (bit7, bit6) IF 58.75 Mhz 45.75 Mhz		0x05d	H PH	+0-YUV			32	32
Smart Sound: Theatre, Tuner Mode: Auto, Volume: 30, CC: Off AGC 0-63 24 32 RF.AGC adjust 0x00d (bit5, bit4) AGC SPEED 0-63 1 1 1 AGC speed 0x0dd (bit5, bit4) AGC SPEED 0-63 1 1 1 IF choose 0x0dd (bit7, bit6) IF 58.75 Mhz 45.75 Mhz 45.7						-		
RF.AGC adjust 0x002 AGC 0-63 24 32 AGC speed 0x0de (bits, bit4) AGC SPEED 0-63 1 1 IF choose 0x0dd (bit7, bit6) IF 58.75 Mhz 45.75 Mhz	Out of box setting, Smart Picture: Rich, Contrast +: On, NR: Off,		SHIPMODE	OFF	ON			
AGC speed 0x0de (bits, bit4) AGC SPEED 0-63 1 1 IF choose 0x0dd (bit7, bit6) IF 58.75 Mhz 45.75 Mhz		0x002	AGC	0-63			24	32
IF choose	-						1	
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Bypass of sound bandpass filter 0x0e1 (bit5, bit4) BPB 0-2 1 1 Video dependent coring 0x0de (bit3, bit2) CORING 0-3 3 3 Switch-off in vertical overscan 0x0e7 (bit7) OSO OFF ON ON ON Direct key "2" UOC control volume switch 0x0e8 (bit7) UOC VOL SW OFF ON OFF OFF UOC/PWM modify volume value 0x02e UOC/PWM VOL 0-63 41 40		0x0e7(bit2)	MUS	USA	JAP		USA	USA
Video dependent coring 0x0de (bit3, bit2) CORING 0-3 3 3 Switch-off in vertical overscan 0x0e7 (bit7) OSO OFF ON ON ON Direct key "2" UOC control volume switch 0x0e8 (bit7) UOC VOL SW OFF ON OFF OFF UOC/PWM modify volume value 0x02e UOC/PWM VOL 0-63 41 40	PAL, NTSC decode matrix	0x0ed (bit0)	MAT	OFF	ON		OFF	ON
Switch-off in vertical overscan 0x0e7 (bit7) OSO OFF ON ON ON Direct key "2" UOC control volume switch 0x0e8 (bit7) UOC VOL SW OFF ON OFF OFF UOC/PWM modify volume value 0x02e UOC/PWM VOL 0-63 41 40	Bypass of sound bandpass filter	0x0e1 (bit5, bit4)	BPB	0-2			1	1
Direct key "2" UOC control volume switch 0x0e8 (bit7) UOC VOL SW OFF ON OFF OFF UOC/PWM modify volume value 0x02e UOC/PWM VOL 0-63 41 40	Video dependent coring	0x0de (bit3, bit2)	CORING	0-3			3	3
UOC control volume switch 0x0e8 (bit7) UOC VOL SW OFF ON OFF OFF UOC/PWM modify volume value 0x02e UOC/PWM VOL 0-63 41 40	Switch-off in vertical overscan	0x0e7 (bit7)	OSO	OFF	ON		ON	ON
UOC/PWM modify volume value 0x02e UOC/PWM VOL 0-63 41 40	Direct key "2"	-	-					
	UOC control volume switch	0x0e8 (bit7)	UOC VOL SW	OFF	ON		OFF	OFF
Volume of 9859 modify value when sound is mono 0x052 MONO GAIN 0-63 48 52		0x02e	UOC/PWM VOL	0-63			41	40
	Volume of 9859 modify value when sound is mono	0x052	MONO GAIN	0-63			48	52

Description of the factory menu	Storage address	Display string	Range (Inde	x value)		Default	SK5.0L CA
Volume of 9859 modify value when sound is stereo	0x053	STEREO GAIN	0-63			48	52
Volume of 9859 modify value when sound is SAP	0x054	SAP GAIN	0-63			48	50
Volume of 9859 modify value when system is AV state	0x055	AV GAIN	0-63			48	48
9859 control pin output state	0x0e0 (bit3, bit2)	9859INPUT	0-2			2	0
10% volume point	0x026	VOL 10	0-100			25	20
25% volume point	0x027	VOL 25	0-100			50	45
50% volume point	0x028	VOL 50	0-100			75	60
80% volume point	0x029	VOL 80	0-100			90	80
100% volume point	0x02a	VOL 100	0-100			100	100
FM demodulate frequency width	0x0de (bit1, bit0)	FMWS	0-2			0	0
AVL function switch	0x0e8 (bit6)	AVL OPT	OFF	ON		OFF	OFF
Direct key "3"	OXOCO (DILO)	7.72 0	· · ·	10.1		· · ·	0
AV control logic choose	0x0e1 (bit7, bit6)	AV OPT	0-3	1		1	0
AV choose	0x0cc (bit7-bit4)	AV CFG	0-7			3	3
AV2 choose	0x0ea (bit7 bit4)	2 AV	OFF	ON		OFF	OFF
DVD choose	0x0e9 (bit4)	YC/DVD	OFF	ON		OFF	OFF
	` '	VIDEO OUT	IF				
Video output	0x0e7 (bit4)	PIN 5	IF	CVBS		CVBS	CVBS
Pin 5 choose function	0x0cc (bit3-bit0)	PIN 7				NTSC	NTSC
Pin 7 choose function	0x0cd (bit7-bit4)					VOL1	VOL1
Pin 8 choose function	0x0cd (bit3-bit0)	PIN 8				MUTE	MUTE
MUTE pin mode	0x0e9 (bit0)	MUTEPIN MODE	OFF	ON		OFF	
OFF: Pin 7 control volume curve	0x0ee (bit6)	MUTEPIN SEL				OFF	
ON: Pin 4 control volume curve	CAUGG (DILO)			1		011	
CCD Horizontal width adjust	0x05a	CC HP	0-15			13	13
CCD scan Horizontal row when PAL N system	0x060	CC LINE	0-60			21	21
CCD delay adjustment	0x0d1 (bit3-bit0)	CC DELAY	8-23			20	12
Direct key "4"	OXOGT (DIG-DIO)		0-23			20	12
OSD up down position	0x02b	VP	0-63	1		52	51
OSD left right position	0x02c	HP	0-63			54	42
RGB/YUV OSD Horizontal Center	0x02c 0x05b	YUV OSD HS	0-60			38	44
OSD output contrast	ļ	OSD L	0-80			0	0
•	0x0df (bit7, bit6)	HALFTONE		011			
Menu translucence	0x0e9 (bit1)	SOFTWARE	OFF	ON		ON	ON
Software version number		VERSION					
		NUMBER					
Direct key "5"		•				•	
Sound mode		BTSC-MODE	MONO	STEREO	SAP		
Stereo noise limit	0x0ce (bit7-bit4)	BTSC-ST	0-15			0	0
SAP noise limit	0x0ce(bit3-bit0)	BTSC-SP	0-15			0	0
Sound input level adjustment	0x040	BTSC-LI	0-15			7	9
Separate	0x041	BTSC-A1	0-31			23	14
Separate	0x042	BTSC-A2	0-31			22	6
Time constant	0x0cf (bit7-bit4)	BTSC-TC	0-7			4	3
Stereo level switch	0x0e8 (bit3)	BTSC-STS	OFF	ON		OFF	ON
Stereo adjustment on/off	0x0e8 (bit2)	BTSC-ADJ	BUSY	START		START	START
MTS detect time delay	0x000 (Bit2)	MTS DETECT	0-255	017411		50	50
STEREO and SAP detect count	0x072	MTS FILTER	0-255			20	20
MONO detect count	0x074	MTS FILTER2	0-255			20	3
Direct key "6"	0.074		0-233	1		20	3
POWER ON MODE	0.0.1.1 (1.10.1.10)	DOW.	1	1		2	2
I OWEN ON WOODL		IPOW	n_2				14
DOWED ON time delet	0x0dd (bit3, bit2)	POWER ON TIM	0-2				10
POWER ON time delay	0x0cb (bit3-bit0)	POWER ON TIM	2-17	ON		12	12 ON
Black current stabilization	0x0cb (bit3-bit0) 0x0e8 (bit0)	POWER ON TIM AKB	2-17 OFF	ON		12 ON	ON
Black current stabilization Black current loop detect	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7)	POWER ON TIM AKB NBL	2-17 OFF OFF	ON		12 ON ON	ON ON
Black current stabilization Black current loop detect WATCH DOG	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7)	POWER ON TIM AKB NBL WATCHDOG	2-17 OFF OFF	ON ON		12 ON ON OFF	ON ON ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7)	POWER ON TIM AKB NBL	2-17 OFF OFF	ON		12 ON ON	ON ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC	2-17 OFF OFF OFF	ON ON		12 ON ON OFF	ON ON ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP	2-17 OFF OFF OFF OFF	ON ON ON		12 ON ON OFF ON	ON ON ON ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit6)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME	2-17 OFF OFF OFF OFF OFF	ON ON ON ON		12 ON ON OFF ON OFF	ON ON ON ON OFF
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit4)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER	2-17 OFF OFF OFF OFF OFF OFF	ON ON ON ON ON		12 ON ON OFF ON OFF OFF	ON ON ON ON OFF OFF
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT	2-17 OFF OFF OFF OFF OFF OFF	ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF OFF	ON ON ON OFF OFF OFF ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit4)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER	2-17 OFF OFF OFF OFF OFF OFF	ON ON ON ON ON		12 ON ON OFF ON OFF OFF	ON ON ON ON OFF OFF
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen OFF: Black Screen	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT BLUE BLACK	2-17 OFF OFF OFF OFF OFF OFF OFF	ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF OFF ON	ON ON ON OFF OFF OFF ON ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen OFF: Black Screen EW WIDTH offset according to "EW WIDTH" value when TV is no signal	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6) 0x0e9 (bit6)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT BLUE BLACK BB WIDTH	2-17 OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF OFF ON ON	ON ON ON OFF OFF OFF ON ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen OFF: Black Screen EW WIDTH offset according to "EW WIDTH" value when TV is no signal Video mute during change to program	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6) 0x0eg (bit6) 0x0eg (bit6) 0x0eg (bit6)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT BLUE BLACK BB WIDTH BLACK BACK	2-17 OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	ON ON ON ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF OFF ON ON	ON ON ON OFF OFF OFF ON ON 1
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen OFF: Black Screen EW WIDTH offset according to "EW WIDTH" value when TV is no signal Video mute during change to program RGB BLANKING	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6) 0x0e9 (bit6)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT BLUE BLACK BB WIDTH	2-17 OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF OFF ON ON	ON ON ON OFF OFF OFF ON ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen OFF: Black Screen EW WIDTH offset according to "EW WIDTH" value when TV is no signal Video mute during change to program RGB BLANKING Direct key "7"	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6) 0x0eg (bit6) 0x0eg (bit6) 0x0ed (bit7) 0x0eb (bit7)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT BLUE BLACK BB WIDTH BLACK BACK RGB BLANKING	2-17 OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	ON ON ON ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF OFF ON ON +0 O	ON ON ON OFF OFF OFF ON ON 1 0 ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen OFF: Black Screen EW WIDTH offset according to "EW WIDTH" value when TV is no signal Video mute during change to program RGB BLANKING Direct key "7" Sub contrast	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit6) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6) 0x0eg (bit6) 0x0eg (bit6) 0x0ed (bit7) 0x0eb (bit7) 0x0eb (bit4) 0x0ec (bit6) 0x0eg (bit6) 0x0ed (bit7)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT BLUE BLACK BB WIDTH BLACK BACK RGB BLANKING SUB BRI	2-17 OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	ON ON ON ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF ON ON +0 O	ON ON ON ON OFF OFF OFF ON ON 1 0 ON
Black current stabilization Black current loop detect WATCH DOG ON: Philips RC OFF: Skyworth RC VCHIP FUNCTION SWITCH GAME FUNCTION SWITCH CALENDER FUNCTION SWITCH 4:3 expand function choose ON: Blue Screen OFF: Black Screen EW WIDTH offset according to "EW WIDTH" value when TV is no signal Video mute during change to program RGB BLANKING Direct key "7"	0x0cb (bit3-bit0) 0x0e8 (bit0) 0x0e9 (bit7) 0x0eb (bit7) 0x0eb (bit6) 0x0ea (bit7) 0x0eb (bit5) 0x0eb (bit5) 0x0eb (bit4) 0x0ec (bit6) 0x0eg (bit6) 0x0eg (bit6) 0x0ed (bit7) 0x0eb (bit7)	POWER ON TIM AKB NBL WATCHDOG PHILIPS RC VCHIP GAME CALENDER ZOOM OPT BLUE BLACK BB WIDTH BLACK BACK RGB BLANKING	2-17 OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	ON ON ON ON ON ON ON ON ON		12 ON ON OFF ON OFF OFF OFF ON ON +0 O	ON ON ON OFF OFF OFF ON ON 1 0 ON

Description of the factory menu	Storage address	Display string	Range (Inde	x value)	Default	SK5.0L CA
Sub Sharpness	0x024	SUB SHA	0-63	I I	32	32
TV Sub tint	0x025	SUB TIN	0-31		16	16
AV Sub tint	0x075	SUB TIN-AV	0-31		16	16
	0x0r3 0x0c9 (bit3-bit0)	YDL PAL	0-31		2	10
PAL Luminance delay NTSC Luminance delay	0x0c9 (bit7-bit4)	YDL NTSC	0-15		2	10
AV Luminance delay	, ,	YDL AV	0-15		4	10
,	0x0ca(bit7-bit4)	MAX BRI				
Maximum brightness	0x056	MID BRI	0-63		63 18	52 27
Middle brightness	0x021	MAX CON	0-63		63	
Maximum contrast	0x058	MID CON	0-63			63
Middle contrast	0x022	SC.BRI	0-63		15	28
Line-level of brightness Direct key "8"	0x02d	SC.BRI	0-63		8	8
· · · · · · · · · · · · · · · · · · ·	T	YUV DR	1,	I I	1 _	1 -
YUV offset according to "DRI R" value of TV, white point R of YUV.	0x012		(-32) - (+31)		+0	+0
YUV offset according to "DRI G" value of TV, white point G of YUV	0x013	YUV DG	(-32) - (+31)		+0	+0
YUV offset according to "DRI B" value of TV, white point B of YUV	0x014	YUV DB	(-32) - (+31)		+0	+0
YUV offset according to "CUT R" value of TV, black level offset R of YUV	0x015	YUV CR	(-32) - (+31)		+0	+0
YUV offset according to "CUT G" value of TV, black level offset G of YUV	0x016	YUV CG	(-32) - (+31)		+0	+0
English OSD switch	0x0eb (bit3)	ENGLISH	OFF	ON	ON	ON
Spanish OSD switch	0x0eb (bit2)	SPANISH	OFF	ON	ON	ON
French OSD switch	0x0eb (bit1)	FRANCE	OFF	ON	OFF	OFF
Portuguese OSD switch	0x0eb (bit0)	PORTUGUESE	OFF	ON	ON	ON
External Y (Luminance) input gain during YPRPB. OFF: gain 0 dB reduced, ON: gain 3 dB reduced	0x0ee (bit4)	YGN	OFF	ON	OFF	ON
Cathode drive level	0x0ca (bit3-bit0)	CATHE			3	3
EHT tracking mode	0x0ea (bit6)	HCO			ON	ON
Black current measuring lines in overscan	0x0e9 (bit2)	OSVE			OFF	OFF
Manual INIT E2PROM		INITEEP				
Key "Smart sound"						
BASS set value in Voice state	0x064	BASS			30	30
TREBLE set value in Voice state	0x065	TREBLE			50	50
SURROUND set value in Voice state	0x066	SURROUND			OFF	OFF
BASS set value in Music state	0x067	BASS			55	55
TREBLE set value in Music state	0x068	TREBLE			60	60
SURROUND set value in Music state	0x069	SURROUND			OFF	OFF
BASS set value in Theatre state	0x06a	BASS			80	80
TREBLE set value in Theatre state	0x06b	TREBLE			70	70
SURROUND set value in Theatre state	0x06c	SURROUND			ON	ON
Key "Smart image"						
Bright set value in Soft state	0x036	BRIGHT			55	55
Contrast set value in Soft state	0x037	CONTRAST			50	50
Color set value in Soft state	0x038	COLOR			45	45
Sharpness set value in Soft state	0x039	SHARP			45	45
Sharpness set value in Soft state of YUV	0x070	YUV SHARP			50	50
COLOR TEMP set value in Soft state	0x03a	COLOR TEMP			WARM	WARM
Bright set value in Rich state	0x03b	BRIGHT			70	70
Contrast set value in Rich state	0x03c	CONTRAST			85	85
Color set value in Rich state	0x03d	COLOR			70	70
Sharpness set value in Rich state	0x03e	SHARP			70	70
Sharpness set value in Rich state of YUV	0x071	YUV SHARP			80	80
COLOR TEMP set value in Rich state	0x03f	COLOR TEMP			COOL	COOL
Bright set value in Natural state	0x031	BRIGHT			50	50
Contrast set value in Natural state	0x032	CONTRAST			75	75
Color set value in Natural state	0x033	COLOR			50	50
Sharpness set value in Natural state	0x034	SHARP			50	50
Sharpness set value in Natural state of YUV	0x06f	YUV SHARP			50	50
COLOR TEMP set value in Natural state	0x035	COLOR TEMP			NORMAL	NORMAL
•	•		•	<u>. </u>	•	

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

- 9.1 Introduction
- 9.2 The various circuits
- 9.3 Abbreviation List
- 9.4 IC Data Sheets

9.1 Introduction

The SK5.0L CA is a CRT TV for the year 2007, based on the 5P19 platform. In this chapter, only a general description of the various circuits is given. For more detailed information, see the circuit diagrams in this manual.

9.2 The various circuits

9.2.1 Tuner

The function of the tuner is to select the channel to be received and suppress the interference of neighboring channels, to amplify the high frequency signal, to improve the receiving sensitivity and SNR, and to generate a PIF signal through frequency conversion.

9.2.2 IF Channel

The IF Channel mainly ensures the sensitivity and selectivity of the complete TV set. The IF AMP integrated in the UOCIII is made up of a three-stage dual-differential amplifier with a gain value above 70dB, a SNR of 55dB and a bandwidth of 7 MHz. The video demodulation circuit is made from the built-in PLL Sync Detector. The spectrum of the demodulation carrier is unitary and it is not affected by the content of the video signal. The tuner features stable receptivity while the signal output from the video detector features high fidelity. The built-in PLL circuit of the UOCIII generates a 38.0 MHz or 38.9 MHz demodulation reference signal for the sync detector to demodulate the video signal; this is called "PLL sync demodulation".

9.2.3 Sound Channel

An external ceramic filter is used to select the second SIF signal for the sound channel of UOCIII from the signal output of the video detector. The audio signal is obtained after limiting amplification and demodulation by the intermediate frequency detector for the SIF signal, and then the audio signal is fed to the BTSC stereo/SAP decoder TDA9850. From that it is output to the audio amplifier TFA9842, which drives the speakers to provide the sound. The intermediate frequency detector and volume-control attenuator that are built in the UOCIII are set and adjusted via the CPU.

9.2.4 BTSC stereo/SAP decoder

Input Level Adjustment

The composite input signal is fed to the input level adjustment stage. The control range is from -3.5 to +4.0 dB in steps of 0.5 dB. The maximum input signal voltage is 2 V (RMS).

Stereo Decoder

The output signal of the level adjustment stage is coupled to a low-pass filter which suppresses the baseband noise above 125 kHz. The composite signal is then fed into a pilot detector/pilot cancellation circuit and into the MPX demodulator. The main L + R signal passes a 75 ms fixed de-emphasis filter and is fed into the dematrix circuit. The decoded sub-signal L - R is sent to the stereo/SAP switch. To generate the pilot signal the stereo demodulator uses a PLL circuit including a ceramic

resonator. The stereo channel separation is adjusted by an automatic procedure to be performed during set production. The stereo identification can be read by the $|^{2}$ C-bus. Two different pilot thresholds (data STS = 1; STS = 0) can be selected via the $|^{2}$ C-bus.

SAP Demodulator

The composite signal is fed from the output of the input level adjustment stage to the SAP demodulator circuit through a 5fH band-pass filter. The demodulator level is automatically controlled. The SAP demodulator includes an internal field strength detector that mutes the SAP output in the event of insufficient signal conditions. The SAP identification signal can be read by the I²C-bus.

Noise Detector

The composite input noise increases with decreasing antenna signal. This makes it necessary to switch stereo or SAP off at certain thresholds. These thresholds can be set via the I²C-bus. With ST0 to ST3 the stereo threshold can be selected and with SP0 to SP3 the SAP threshold. A hysteresis can be achieved via software by making the threshold dependent of the identification bits STP and SAPP.

Mode Selection

The stereo/SAP switch feeds either the L - R signal or the SAP demodulator output signal via the internal dbx noise reduction circuit to the dematrix/switching circuit. Different switch modes provided at the output pins OUTR and OUTL are available.

dbx Decoder

The dbx circuit includes all blocks required for the noise reduction system in accordance with the BTSC system specification. The output signal is fed through a 73 ms fixed deemphasis circuit to the dematrix block.

SAP Output

Independent of the stereo/SAP switch, the SAP signal is also available at pin SAP. At SAP, the SAP signal is not dbx decoded. The capacitor at SDE provides a recommended deemphasis (150 ms) at SAP.

Integrated Filters

The filter functions necessary for stereo and SAP demodulation and part of the dbx filter circuits are provided on-chip using transconductor circuits. The required filter accuracy is attained by an automatic filter alignment circuit.

9.2.5 CRT Drive Circuit

In the driver circuit, both the voltage and current of the R/G/B signal are amplified, after which the CRT drive circuit modulates the cathode beam current of the CRT. The R/G/B signal input into the driver circuit is of negative polarity.

9.2.6 Power Supply Circuit

The function of the power supply circuit is to supply various stabilized operating voltages and to provide protections against excessive voltages and currents.

9.3	Abbreviation Lis	t	H-FLYBACK H-OUT	Horizontal Flyback H_sync output of the module /
	2CS	2 Carrier Sound		Horizontal Output pulse
	203 A2		HA	Horizontal Acquisition; horizontal sync
	AZ	Commonly known as 2 Carrier Sound		pulse
	A C	(2CS) system	HFB	Horizontal Flyback Pulse; Horizontal
	AC	Alternating Current		sync pulse from large signal deflection
	ACI	Automatic Channel Installation:	HW	Hardware
		algorithm that installs TV channels	1	Monochrome TV system. Sound
		directly from a cable network by	·	carrier distance is 6.0 MHz. VHF- and
		means of a predefined TXT page		UHF-band
	ADC	Analogue to Digital Converter	I ² C	Inter IC bus (also called IIC)
	AFC	Automatic Frequency Control: control	l ² S	Inter IC Sound bus
		signal used to tune to the correct	IC	Integrated Circuit
		frequency	IF	Integrated Circuit Intermediate Frequency
	AGC	Automatic Gain Control: algorithm that	IIC	. ,
		controls the video input of the feature	Interlaced	Inter IC bus (also called I2C)
		box	mienaced	Scan mode where two fields are used
	AM	Amplitude Modulation		to form one frame. Each field contains
	ANC	Automatic Noise Reduction; One of		half the number of the total amount of
		the algorithms of Auto TV		lines. The fields are written in "pairs",
	AP	Asia Pacific	10	causing line flicker.
	AR	Aspect Ratio: 4 by 3 or 16 by 9	10	In/Out
	AV	Audio Video	IR	Infra Red
	AVL	Automatic Volume Level control	L	Left audio channel
	B/G	Monochrome TV system. Sound	L/L'	Monochrome TV system. Sound
	_, _	carrier distance is 5.5 MHz		carrier distance is 6.5 MHz. L' is Band
	BCL	Beam Current Limiter		I, L is all bands except for Band I
	CBA	Circuit Board Assembly (or PWB)	LATAM	LATin AMerica
	CFR	Carbon Film Resistor	LED	Light Emitting Diode
	ComPair	Computer aided rePair	LOT	Line Output Transformer (also called
	CRT	Cathode Ray Tube (or picture tube)		FBT); The transformer in which the
	CVBS	Composite Video Blanking and		EHT is generated
	CVDO	Synchronisation	LS	Loud Speaker
	CVI	Component Video Input	M/N	Monochrome TV system. Sound
	D/K			carrier distance is 4.5 MHz. M= 525
	D/K	Monochrome TV system. Sound		lines @ 60 Hz, N= 625 lines @ 50 Hz
		carrier distance is 6.5 MHz. D= VHF- band, K= UHF-band	MOFR	Metal Oxide Film Resistor
	DAC	· · · · · · · · · · · · · · · · · · ·	MOSFET	Metal Oxide Semiconductor Field
	DC	Digital to Analogue Converter		Effect Transistor
	DC-filament	Direct Current	MPX	MultiPleX
	DFU	Filament supply voltage Directions For Use: owner's manual	NAFTA	North American Free Trade
	DPU			Association: Trade agreement
	DRAM	Dolby Pro Logic Dynamic RAM; dynamically refreshed		between Canada, USA and Mexico
	DIVAIVI	RAM	NC	Not Connected
	DVD	Digital Versatile Disc	NICAM	Near Instantaneously Companded
	EEPROM	Electrically Erasable and		Audio Multiplexing; This is a digital
	LLI KOW	Programmable Read Only Memory		sound system, mainly used in Europe
	EHT	Extreme High Tension; the voltage	NTC	Negative Temperature Coefficient,
	E1111	between the cathode and the shadow		non-linear resistor (resistance
		mask that accelerates the electrons		decreases if temperature increases)
		towards the screen (around 25 kV)	NTSC	National Television Standard
	EMI	Electro Magnetic Interference;		Committee. Colour system used
		Leakage of high-frequency radiation		mainly in North America and Japan.
		from a transmission medium		Colour carrier NTSC M/N = 3.579545
	EU	EUrope		MHz, NTSC $4.43 = 4.433619$ MHz
	EW	East West, related to horizontal		(this is a VCR norm, it is not
		deflection of the set		transmitted off-air)
	EW-DRIVE	East -West correction drive signal.	NVM	Non Volatile Memory; IC containing
	EXT	EXTernal (source), entering the set by		data such as alignment values, preset
		SCART or by cinches (jacks)		stations
	FBL	Fast Blanking: DC signal	ОВ	Option Byte
		accompanying RGB signals	OC	Open Circuit
	FE	Front End; Tuner and RF part together	OP	OPtion byte
	Field	Each interlaced broadcast FRAME is	OSD	On Screen Display
		composed of two Fields, each Field	P50	Project 50; Communication protocol
		consists of either Odd or Even lines		between TV and peripherals
	Filament	Filament of CRT	PAL	Phase Alternating Line; Colour system
	FM	Field Memory / Frequency Modulation		mainly used in West Europe (colour
	Frame	A complete TV picture comprising all		carrier= 4.433619 MHz) and South
		lines (625/525)		America (colour carrier PAL M=
	FTV	Flat TeleVision		3.575612 MHz and PAL N= 3.582056
	G	Green	DCC	MHz)
	Н	H_sync to the module	PCB	Printed Circuit Board (or PWB)
	H-DRIVE	Horizontal Drive	PLL	Phase Locked Loop; Used for e.g.
				FST tuning systems. The customer

can directly provide the desired

frequency

SK5.0L CA

Scan mode where all scan lines are Progressive Scan

> displayed in one frame at the same time, creating a double vertical

resolution.

PTC Positive Temperature Coefficient, non

linear resistor (resistance increases if

temperature increases)

PWB Printed Wiring Board (also called PCB

or CBA)

QSS Quasi Split Sound Right audio channel / Red RAM Random Access Memory Remote Control transmitter RC RC5 (6) Remote Control system 5 (6), the

signal from the remote control receiver

RF Real Flat (picture tube) or Radio

Frequency

RGB Red, Green, and Blue colour space;

> The primary colour signals for TV. By mixing levels of R, G, and B, all colours

(Y/C) are reproduced

Red, Green, Blue, Horizontal sync, **RGBHV**

and Vertical sync

RMS Root Mean Square value **ROM** Read Only Memory

SAP Secondary Audio Program; Generally

used to transmit audio in a second

language

SAW Surface Acoustic Wave

SC SandCastle: two-level pulse derived

from svnc signals

S/C **Short Circuit**

SCL Serial Clock signal on I²C bus

SD Standard Definition Serial Data line of I²C bus SDA **SDRAM** Synchronous DRAM

Sound Intermediate Frequency SIF SMC **Surface Mounted Component** SMD Surface Mounted Device **SMPS** Switched Mode Power Supply

SND SouND SRAM Static RAM STBY **STandBY**

SVHS Super Video Home System

To Be Defined TBD

Teletext; TXT is a digital addition to **TXT**

> analogue TV signals that contain textual and graphical information (25 rows x 40 columns). The information is transmitted within the first 25 lines during the Vertical Blank Interval (VBI)

Microcontroller μC UOC Ultimate One Chip μP Microprocessor UV Colour difference signals

V svnc

V-BAT Main supply for deflection (usually 141

Vertical Acquisition VA

VBI Vertical Blanking Interval; Time during

which the video signal is blanked when going from bottom to top of the display

VCR Video Cassette Recorder **VGA** Video Graphics Array Video Intermediate Frequency VIF WE Write Enable control line WST World System Teletext

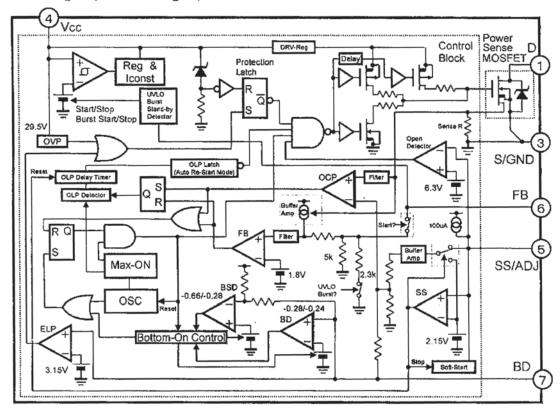
XTAL Quartz crystal Luminance signal

9.4 **IC Data Sheets**

This section shows the internal block diagrams and pin layouts of ICs that are drawn as "black boxes" in the electrical diagrams.

9.4.1 Diagram A1, W6554A, (IC601)

Block diagram (Connection diagram)



Functions of Each Terminal

Terminal No.	Symbols	Descriptions	Functions
1	D	Drain terminal	MOSFET drain
3	S/GND	Source and Ground terminal	MOSFET Source and Ground
4	VCC	Power supply terminal	Input of power supply for control circuit
5	SS/ADJ	Soft Start and Over-current protection adjustment Terminal	Adjustment of over-current protection and Soft Start Operation Time set up
6	FB	Feedback terminal	Constant Voltage Control Signal Input and Burst(intermittent) mode Oscillation Control
7	₿D	Bottom Detection Terminal	Bottom Detection Signal Input and External Latch Signal Input

H_17210_039.eps 120607

Figure 9-1 Block Diagram and Pin Configuration

SK5.0L CA

9.4.2 Diagram A1, P412, (IC602)

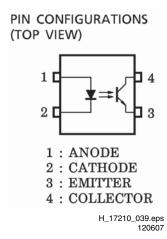
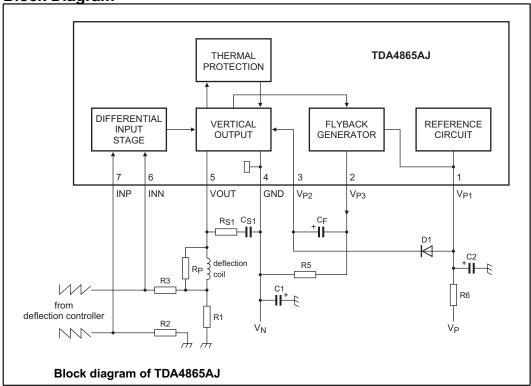


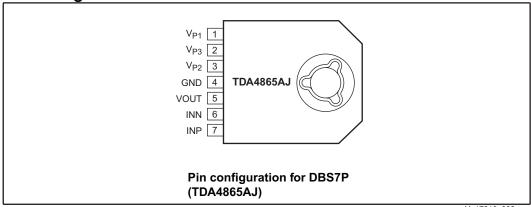
Figure 9-2 Block Diagram and Pin Configuration

9.4.3 Diagram A3, TDA486x, (IC301)

Block Diagram



Pin Configuration



H_17210_038.eps 120607

Figure 9-3 Block Diagram and Pin Configuration

BLOCK DIAGRAM

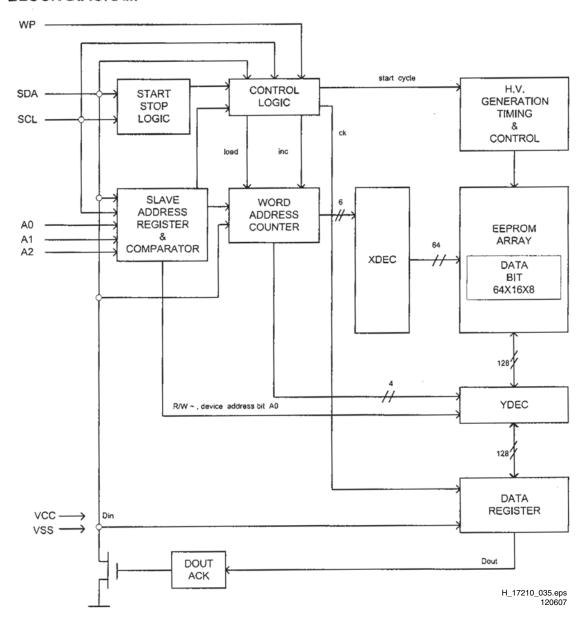
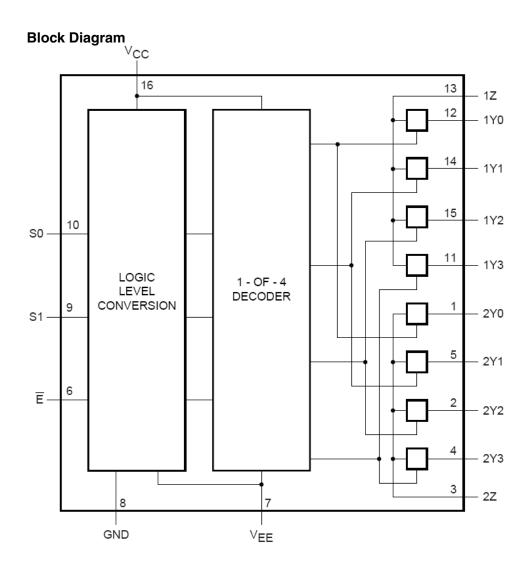


Figure 9-4 Block Diagram

9.4.4 Diagram A5, 4052, (IC102)



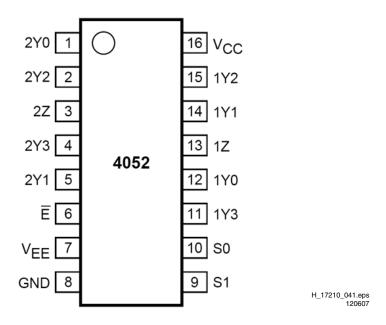
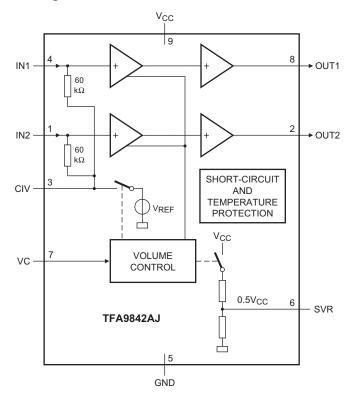


Figure 9-5 Block Diagram and Pin Configuration

9.4.5 Diagram A7, TDA9842, (IC402)

Block Diagram



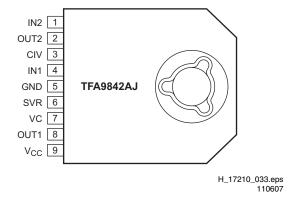
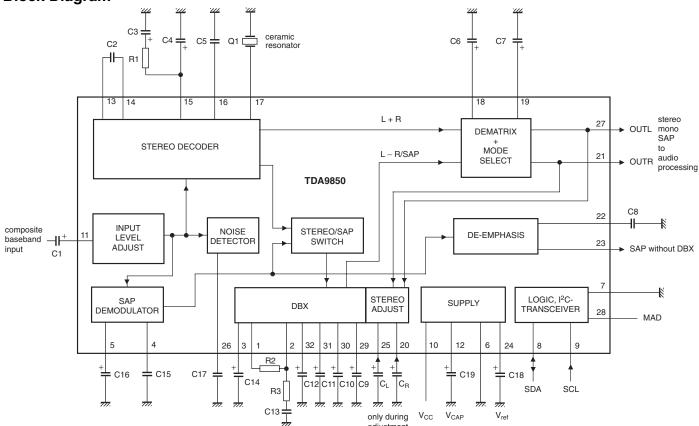
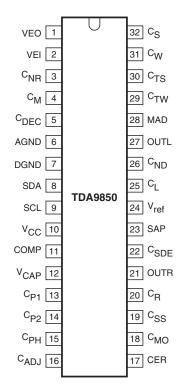


Figure 9-6 Block Diagram and Pin Configuration

9.4.6 Diagram A7, TDA9850, (IC801)

Block Diagram





H_17450_004.eps 200907

Figure 9-7 Block Diagram and Pin Configuration

SK5.0L CA

9.4.7 Diagram A8, OM837x (IC201)

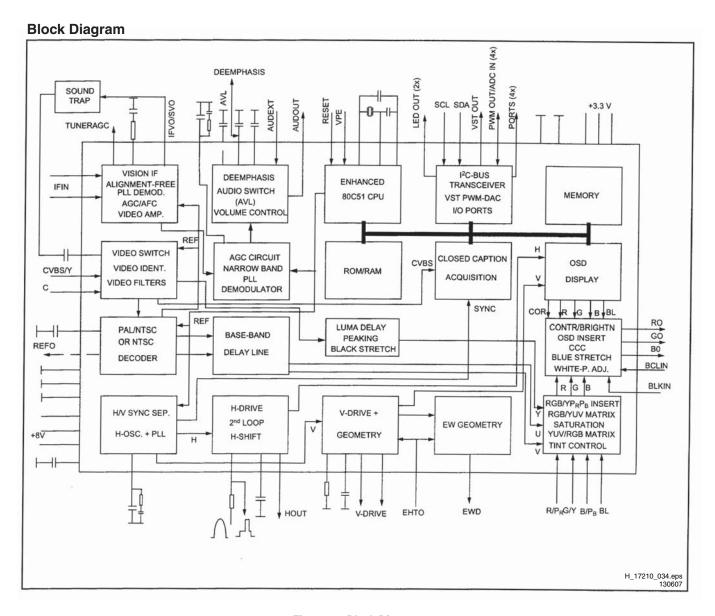
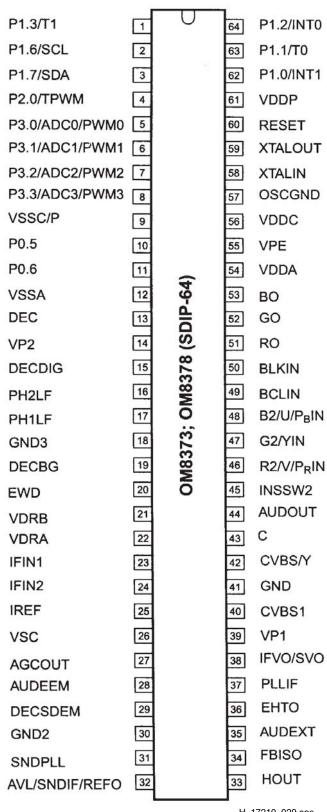


Figure 9-8 Block Diagram



H_17210_029.eps 130607

Figure 9-9 Pin Configuration

SK5.0L CA

PINNING

SYMBOL	PIN	DESCRIPTION
P1.3/T1	1	port 1.3 or Counter/Timer 1 input
P1.6/SCL	2	port 1.6 or I ² C-bus clock line
P1.7/SDA	3	port 1.7 or I ² C-bus data line
P2.0/TPWM	4	port 2.0 or Tuning PWM output
P3.0/ADC0/PWM0	5	port 3.0 or ADC0 input or PWM0 output
P3.1/ADC1/PWM1	6	port 3.1 or ADC1 input or PWM1 output
P3.2/ADC2/PWM2	7	port 3.2 or ADC2 input or PWM2 output
P3.3/ADC3/PWM3	8	port 3.3 or ADC3 input or PWM3 output
VSSC/P	9	digital ground for μ-Controller core and periphery
P0.5	10	port 0.5 (8 mA current sinking capability for direct drive of LEDs)
P0.6	11	port 0.6 (8 mA current sinking capability for direct drive of LEDs)
VSSA	12	digital ground of TV-processor
DEC	13	decoupling
VP2	14	2 nd supply voltage TV-processor (+8V)
DECDIG	15	supply voltage decoupling of digital circuit of TV-processor
PH2LF	16	phase-2 filter
PH1LF	17	phase-1 filter
GND3	18	ground 3 for TV-processor
DECBG	19	bandgap decoupling
EWD	20	E-W drive output
VDRB	21	vertical drive B output
VDRA	22	vertical drive A output
IFIN1	23	IF input 1
IFIN2	24	IF input 2
IREF	25	reference current input
VSC	26	vertical sawtooth capacitor
AGCOUT	27	tuner AGC output
AUDEEM	28	audio deemphasis
DECSDEM	29	decoupling sound demodulator
GND2	30	ground 2 for TV processor
SNDPLL	31	narrow band PLL filter
AVL/REFO/SNDIF (1)	32	Automatic Volume Levelling / subcarrier reference output / sound IF input
HOUT	33	horizontal output
FBISO	34	flyback input/sandcastle output
AUDEXT	35	external audio input
EHTO	36	EHT/overvoltage protection input
PLLIF	37	IF-PLL loop filter
IFVO/SVO	38	IF video output / selected video output

H_17210_030.eps 130607

Figure 9-10 Pin Configuration

Pinning

SYMBOL	PIN	DESCRIPTION				
VP1	39	main supply voltage TV processor				
CVBS1	40	internal CVBS input				
GND	41	ground for TV processor				
CVBS3/Y	42	CVBS3/Y input				
С	43	chroma input				
AUDOUT	44	audio output				
INSSW2	45	2 nd RGB / YUV insertion input				
R2/V/P _R IN	46	2 nd R input / V (R-Y) input / P _R input				
G2/YIN	47	2 nd G input / Y input				
B2/U/P _B IN	48	2 nd B input / U (B-Y) input / P _B input				
BCLIN	49	beam current limiter input				
BLKIN	50	black current input / V-guard input				
RO	51	Red output				
GO	52	Green output				
ВО	53	Blue output				
VDDA	54	analog supply of Teletext decoder and digital supply of TV-processor (3.3 V)				
VPE	55	OTP Programming Voltage				
VDDC	56	digital supply to core (3.3 V)				
OSCGND	57	oscillator ground supply				
XTALIN	58	crystal oscillator input				
XTALOUT	59	crystal oscillator output				
RESET	60	reset				
VDDP	61	digital supply to periphery (+3.3 V)				
P1.0/INT1	62	port 1.0 or external interrupt 1 input				
P1.1/T0	63	port 1.1 or Counter/Timer 0 input				
P1.2/INT0	64	port 1.2 or external interrupt 0 input				
		The state of the s				

Note

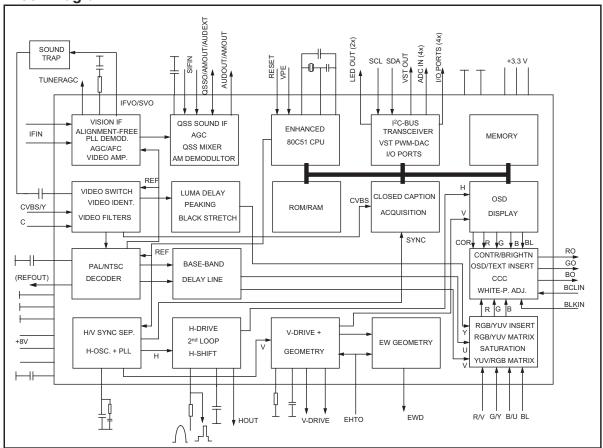
The function of this pin is controlled by the CMB1/CMB0 bits in subaddress 22H and the SIF bit in subaddress 28H.
 H_17210_031.eps
 130607

Figure 9-11 Pin Configuration

9.4.8 Diagram A8, TDA937x (IC201)

SK5.0L CA

Block Diagram



Pin Configuration

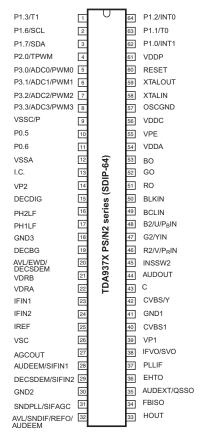


Figure 9-12 Block diagram and pin configuration

H_17450_012.eps 210907

9.4.9 Diagram A8, 24C08 (IC202)

BLOCK DIAGRAM

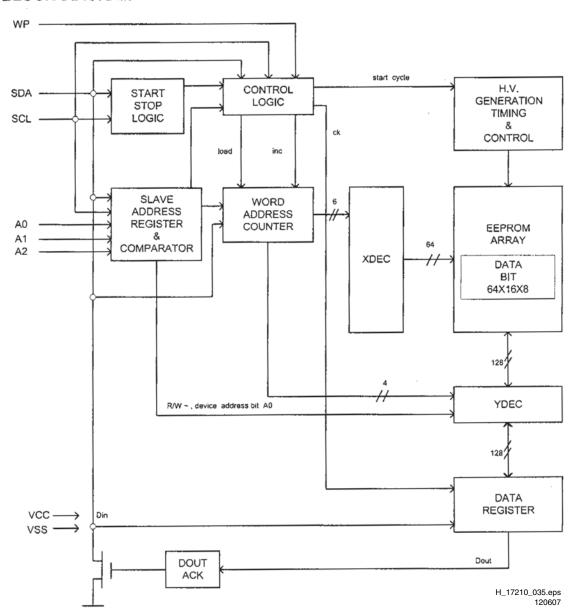
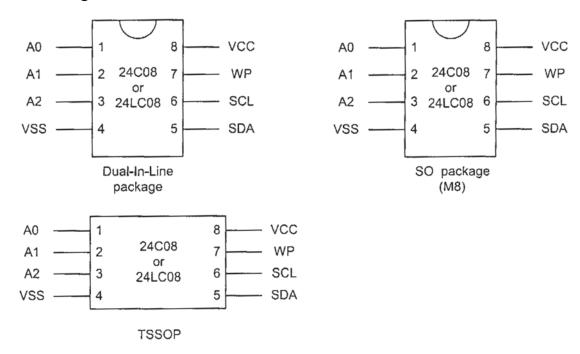


Figure 9-13 Block Diagram

Pin Configuration

SK5.0L CA



Pin Name

A0, A1	N.C.
A2	Device Address inputs
Vss	Ground
SDA	Data I/O
SCL	Clock input
WP	Write Protect
Vcc	+5 V or +3 V

H_17210_036.eps 120607

Figure 9-14 Pin Configuration

10. Spare Parts List

9965 000 40531 470pF 50V

CTN's Listed: C162 9965 000 40529 33pF 50V C745 9965 100 05389 0.068μF 10% 100V C402 9965 000 40164 0.0022μF 500V C746 9965 100 05387 0.15µF 5% 100V C403 9965 000 40163 C747 9965 000 41097 100pF 50V 220pF 500V 1) 8670 000 34071 29PT9457/44 C404 9965 000 40181 4.7μF 50V-100V 20% C748 9965 000 40563 Mylar 0.0056UF 100V 8670 000 34069 29PT9457/55 2) C405 9965 100 04885 0.47uF 20% 50V C749 9965 100 05388 1µF 20% 50V 0.1μF 50V C409 9965 000 40157 C750 9965 100 05388 1uF 20% 50V C410 9965 000 40179 10µF 20% 50V-63V 9965 000 41097 C751 100pF 50V Mono Carrier [A] 0.0039μF 5% 2kV C431 9965 000 40557 C752 9965 000 40563 Mylar 0.0056UF 100V C432 9965 100 04895 0.0072uF 5% 2kV C753 9965 100 05387 0.15μF 5% 100V **Various** C433 9965 000 41145 PFC 0.033μF 5% 630V C754 9965 100 05389 0.068µF 10% 100V 0.56µF 5% 400V 560pF 10% 2kV C435 9965 100 07716 C760 9965 000 40171 10μF 20% 16V F601 9965 000 40615 Fuse T3.15A 250V C436 9965 100 05384 C761 9965 000 40178 1uF 20% 50V P702 9965 200 31263 RCA Jack C437 9965 000 40185 10uF 20% 250V 9965 000 40172 100uF 20% 16V C762 PTC601 9965 100 04865 Ther Resistor 9Ω for 29' 9965 100 04894 0.0027μF 5% 2kV 9965 100 04885 0.47uF 20% 50V C438 C764 S501 9965 100 05376 CRT Socket GZS10 4.7μF 5% C440 9965 100 05402 C765 9965 100 04870 0.0047µF +80-20% 50V SAW101 9965 100 07702 SAW SW05 45.75MHz 0.0047μF +80-20% 50V C441 9965 000 40156 0.01μF 50V C766 9965 100 04870 X101 9965 000 40264 Xtal 12.0MHz HC-49/U C442 9965 100 05383 0.0022μF 10% 2kV C767 $9965\ 000\ 40545\ \ 220\mu F\ 20\%\ 25V$ X851 9965 100 07714 Ceramic Res. 503kHz C443 9965 000 40202 MP 0.056μF 250V 5% C768 9965 100 05385 470µF 20% 35V XT155 9965 100 07703 Ceramic Trap 4.5MHz 9965 100 05385 470μF 20% 35V C444 9965 100 05367 39pF 5% 50V C769 Zener 5V1 1/2W 5% Zener 5V1 1/2W 5% ZD101 9965 000 40221 C445 10uF 20% 16V 9965 000 40209 Mylar $0.0022\mu F$ 100V 9965 000 40171 C770 9965 000 40221 7D102 C452 9965 100 07700 2200µF C771 9965 000 40171 10μF 20% 16V 9965 000 40224 Zener 8V2 1/2W 5% ZD103 9965 100 07700 9965 000 40171 10μF 20% 16V C453 2200uF C772 ZD104 9965 000 40224 Zener 8V2 1/2W 5% C455 9965 100 07710 220μF C773 9965 000 40171 10μF 20% 16V 9965 000 40221 ZD105 Zener 5V1 1/2W 5% C456 9965 000 40560 Mylar $0.1\mu\text{F}\ 100\text{V}$ 9965 000 40560 Mylar $0.1\mu\text{F}\ 100\text{V}$ C774 9965 000 40171 10μF 20% 16V ZD106 9965 000 40224 Zener 8V2 1/2W 5% C459 C775 9965 000 40171 10μF 20% 16V ZD107 9965 000 40224 Zener 8V2 1/2W 5% 0.001μF 50V C460 9965 000 40526 9965 100 04866 0 001uF 5% 50V C776 7D108 9965 000 40224 Zener 8V2 1/2W 5% C461 9965 000 40526 0.001μF 50V 9965 000 40171 10μF 20% 16V C777 Zener 8V2 1/2W 5% ZD401 9965 000 40224 C462 9965 100 05384 560pF 10% 2kV 9965 000 40171 10μF 20% 16V C778 9965 100 04909 ZD402 Zener Diode 18V 1/2W 9965 000 40178 C463 9965 100 07715 PFC.0.39uF 400V +/-5% C779 1μF 20% 50V ZD440 9965 000 40224 Zener 8V2 1/2W 5% PFC C464 9965 100 05626 C780 9965 000 40172 100μF 20% 16V 9965 000 40224 Zener 8V2 1/2W 5% ZD501 C465 9965 100 05627 $0.47\mu F$ 5% 400V C783 9965 100 04866 0.001uF 5% 50V ZD602 9965 100 04909 Zener Diode 18V 1/2W C501 C502 9965 000 40159 330pF 50V C785 9965 000 40171 10μF 20% 16V ZD620 9965 000 40221 Zener 5V1 1/2W 5% 330pF 50V 9965 000 40159 9965 100 05388 1uF 20% 50V C851 7D621 9965 000 40220 Zener 3V9 1/2W 5% C503 9965 000 40159 330pF 50V C852 9965 100 07708 0.47μF 10% 63-100V ZD622 9965 000 40220 Zener 3V9 1/2W 5% C504 9965 100 04876 0.001μF 10% 2kV C853 9965 000 41112 4.7μF 20% 16V ZD701 9965 000 40224 Zener 8V2 1/2W 5% C508 9965 100 04866 0.001uF 5% 50V 9965 100 07706 0.22μF 50V C854 ZD702 9965 000 40224 Zener 8V2 1/2W 5% 0.1μF A C250V-500V 0.22μF 250V - 500V C600 9965 000 40567 C855 9965 000 40171 10μF 20% 16V ZD705 9965 000 40224 Zener 8V2 1/2W 5% C601 9965 000 40217 C856 9965 000 41112 4.7μF 20% 16V ZD706 9965 000 40224 Zener 8V2 1/2W 5% 0.22μF 250V - 500V 9965 000 41112 4.7µF 20% 16V C602 9965 000 40217 C857 7D707 9965 000 40224 Zener 8V2 1/2W 5% 0.22uF 250V - 500V 9965 000 40217 9965 000 40561 Mylar 0 015uF 100V C603 C858 ZD708 9965 000 40224 Zener 8V2 1/2W 5% 9965 000 41100 0.0047µF 500V 9965 000 40171 C603A C859 10uF 20% 16V ZD709 9965 000 40224 Zener 8V2 1/2W 5% 9965 000 41100 0.0047μF 500V 9965 000 40171 C603B C860 10μF 20% 16V ZD710 9965 000 40224 Zener 8V2 1/2W 5% 9965 100 05399 0.0047μF 10% 500V 9965 000 40178 C603C C861 $1\mu F$ 20% 50V ZD711 9965 000 40224 Zener 8V2 1/2W 5% C603D 9965 000 41100 0.0047µF 500V C862 9965 000 40178 1μF 20% 50V ZD712 9965 000 40224 Zener 8V2 1/2W 5% CerCap 0.001mF 2kV C604 9965 000 41105 C863 9965 100 07707 0.047uF 50V ZD713 9965 000 40224 Zener 8V2 1/2W 5% C605 9965 100 04891 0.1μF 5% 63-100V C864 9965 000 40171 10μF 20% 16V 7D714 9965 000 40224 Zener 8V2 1/2W 5% 470pF 10% 500V 0.1μF 50V 9965 100 04874 9965 000 40157 C606 C865 ZD715 9965 000 40224 Zener 8V2 1/2W 5% 9965 000 40564 9965 000 41112 4.7μF 20% 16V C607 220μF C866 0.1μF 50V 9965 000 40179 10μF 20% 50V-63V 9965 000 40157 C608 C867 100μF 20% 16V 9965 100 05386 0.01μF 5% 100V C868 9965 000 40172 C609 g C610 9965 000 40216 Safety CerCap 0.002μF C869 9965 000 40172 100μF 20% 16V C611 9965 000 40566 470pF 10% 400Vac C871 9965 100 05388 1µF 20% 50V C101 9965 000 40156 0.01μF 50V 470pF 10% 400Vac 9965 000 40566 9965 100 05388 1μF 20% 50V C612 C872 9965 000 40156 0.01µF 50V C103 C620 9965 000 40166 680pF 500V C873 9965 000 40180 2.2µF20% 50V C105 9965 000 40156 0.01μF 50V 100μF 2% 200V C621 9965 100 05401 C874 9965 000 40180 2.2μF20% 50V C107 9965 000 41097 100pF 50V 9965 000 41097 9965 100 05400 1000μF 20% 63V C622 C875 100pF 50V C108 9965 000 41097 100pF 50V C623 9965 000 40166 680pF 500V C876 9965 000 41097 100pF 50V C109 9965 000 40171 10μF 20% 16V C624 9965 000 40166 680pF 500V C877 9965 000 40171 10μF 20% 16V C111 C112 9965 000 41097 100pF 50V C625 9965 000 40173 1000uF C878 9965 000 40157 0.1μF 50V 9965 000 41097 100pF 50V 9965 000 40173 9965 100 05388 1μF 20% 50V C626 1000μF C879 9965 000 40174 220µF 20% 16V C113 C627 9965 100 04883 1000μF 20% 25V 0.47uF 20% 50V C114 9965 100 04885 1000μF 20% 25V C628 9965 100 04883 9965 000 40178 C116 1μF 20% 50V 1000μF 20% 63V C629 9965 100 05400 C117 9965 000 40172 100μF 20% 16V C631 9965 000 40172 100µF 20% 16V C118 9965 000 40156 0.01uF 50V R101 9965 000 39984 CFR 75O 1/16W C632 9965 100 05317 47µF 20% 250V $10\mu\dot{F}\ 20\%\ 16V$ 9965 000 40171 C119 9965 000 40685 CFR 1.5kΩ 1/16W R102 9965 000 40157 0.1μF 50V C634 C120 9965 100 04891 0.1μF 5% 63-100V R103 9965 100 05144 5.1kΩ 5% 1/16-1/6W 9965 000 40175 C639 47uF 20% 16V 9965 000 40157 0.1μF 50V C126 CFR 220Ω 1/16W R104 9965 000 40691 C640 9965 000 40174 220μF 20% 16V 9965 100 04892 0.22μF 5% 63-100V C127 R105 9965 000 40690 CFR 22Ω 1/16W 9965 000 41109 2200μF 20% 16V C641 9965 000 40156 0.01μF 50V C128 R106 9965 000 40304 CFR 1KΩ 1/16W C642 9965 000 40173 1000μF C129 9965 000 40171 10μF 20% 16V R107 9965 000 40699 CFR 4700 1/16W 9965 100 04866 0.001uF 5% 50V C701 $0.22 \mu F 5\% 63-100 V$ C130 9965 100 04892 9965 100 05396 RESIS 33 OHM 1W 5% R108 0.001uF 5% 50V C702 9965 100 04866 9965 100 04867 0.0022µF +80-20% 50V C131 R109 9965 000 39976 CFR 10kΩ 1/16W 10μF 20% 16V C132 9965 100 04870 0.0047µF +80-20% 50V C705 9965 000 40171 R110 9965 100 04838 180Ω 5% 1/16-1/6W 9965 000 40171 C706 10uF 20% 16V C133 9965 000 40178 1μF 20% 50V R111 9965 000 39975 CFR 100Ω 1/16W C707 9965 000 40171 10μF 20% 16V 9965 100 04891 C135 0.1μF 5% 63-100V R112 9965 000 39975 CFR 100Ω 1/16W C708 9965 000 40171 10μF 20% 16V C136 9965 100 07709 180pF 50V R113 9965 000 40701 CFR 47kΩ 1/16W C710 9965 000 40176 470μF 20% 16V C137 9965 000 40171 10μF 20% 16V 9965 000 40698 CFR 39kΩ 1/16W R114 C716 9965 000 40171 10μF 20% 16V Mylar $0.0015\mu F 100V$ C138 9965 000 40208 R120 9965 000 40304 CFR 1KΩ 1/16W 330pF 50V C717 9965 000 40171 10uF 20% 16V 9965 000 40159 C139 R121 9965 000 39976 CFR 10kΩ 1/16W 10μF 20% 16V C720 9965 000 40171 C140 9965 000 41112 4.7μF 20% 16V R122 9965 000 39976 CFR 10kΩ 1/16W 0.1μF 5% 63-100V C725 9965 100 04891 C144 9965 100 05386 0.01μF 5% 100V R125 9965 000 40691 CFR 220Ω 1/16W C726 0.1μF 5% 63-100V 9965 100 04891 9965 000 40172 100μF 20% 16V C145 R126 9965 100 04838 180Ω 5% 1/16-1/6W C727 9965 100 04891 0.1μF 5% 63-100V C146 9965 000 40157 0.1μF 50V R127 9965 000 39975 CFR 100Ω 1/16W C728 C740 9965 000 40172 100μF 20% 16V C147 9965 000 40529 33pF 50V 9965 000 40695 CFR 3.3kΩ 1/16W R130 100μF 20% 16V 9965 000 40172 9965 000 40529 33pF 50V C148 9965 000 40695 CFR 3.3kΩ 1/16W R131 $1\mu F~20\%~50V$ C741 9965 100 05388 C149 9965 000 40156 0.01uF 50V R132 9965 000 40695 CFR 3.3kΩ 1/16W C742 9965 100 05388 1uF 20% 50V 9965 000 40172 100μF 20% 16V C150 9965 000 39975 R133 CFR 100Ω 1/16W 9965 000 40561 Mylar 0.015μF 100V C743 C160 9965 000 40531 470pF 50V R134 9965 000 39975 CFR 100Ω 1/16W

9965 000 40561 Mylar 0.015 µF 100V

R135

9965 000 40311 Peaking coil $33\mu H$ 10%

SK5.0L CA Spare Parts List 10.

						ī		
R137		CFR 1KΩ 1/16W	R632	9965 000 40513				
R138		CFR 18kΩ 1/16W	R633	9965 000 40108		d		
R139		CFR 2.7kΩ 1/16W	R634 R635		CFR 10kΩ 1/16W	D400	0005 000 40040	4114440.450 1/4001/
R140 R141		CFR 100Ω 1/16W CFR 10kΩ 1/16W	R638	9965 000 39980	CFR 22kΩ 1/8W	D402 D403		1N4148 150mA/100V
R142		CFR 100Ω 1/16W	R639		CFR 10kΩ 1/16W	D403 D404		Zener 8V2 1/2W 5% 1N4148 150mA/100V
R143		CFR 100Ω 1/16W	R643		CFR 47kΩ 1/16W	D404 D430	9965 000 40569	
R144		CFR 100Ω 1/16W	R644		CFR 10kΩ 1/16W	D431		3A/800V(DO-27)
R145		CFR 22kΩ 1/8W	R645	9965 100 04844		D433		BA158 600V/1A
R147		CFR 1.8kΩ 1/16W	R647		RESIS 0.51 OHM 1W 5%	D450		TBYW362A/600V
R148	9965 000 40695	CFR 3.3kΩ 1/16W	R648	9965 000 39980	CFR 22kΩ 1/8W	D451	9965 100 05390	TBYW362A/600V
R149	9965 000 40695	CFR 3.3kΩ 1/16W	R649	9965 000 40000	CFR 2.2kΩ	D452	9965 000 40219	BA158 600V/1A
R151	9965 000 40122		R650		430Ω 5% 1/16-1/6W	D501		1N4148 150mA/100V
R401		CFR 4.7kΩ 1/16W	R701		CFR 47kΩ 1/16W	D502	9965 000 40219	
R404		CFR 100Ω 1/16W	R702		CFR 47kΩ 1/16W	D503		1N4148 150mA/100V
R405		5.6kΩ 5% 1/16-1/6W	R705		CFR 1.8kΩ 1/16W	D504	9965 000 40219	
R406 R407	9965 000 40774		R706		CFR 1.8kΩ 1/16W	D505		1N4148 150mA/100V
R407 R409	9965 000 40001	27kΩ 5% 1/16-1/6W	R707 R708		CFR 47kΩ 1/16W CFR 47kΩ 1/16W	D506 D603A		BA158 600V/1A Rectifier 800V/1.5A
R412		27kΩ 5% 1/16-1/6W	R709		CFR 47kΩ 1/16W	D603A		Rectifier 800V/1.5A
R413	9965 000 39977		R710		CFR 47kΩ 1/16W	D603C		Rectifier 800V/1.5A
R414		CFR 39kΩ 1/16W	R711		CFR 75Ω 1/16W	D603D		Rectifier 800V/1.5A
R416		CFR 1KΩ 1/16W	R713		CFR 22kΩ 1/8W	D605	9965 000 40219	
R417	9965 000 40695	CFR 3.3kΩ 1/16W	R717	9965 000 40705	CFR 68Ω 1/16W	D620		High Speed Rect. RU4
R419		270kΩ 5W 1/16-1/6W	R719	9965 000 39975	CFR 100Ω 1/16W	D621	9965 000 40219	BA158 600V/1A
R420	9965 000 39988		R721		CFR 75Ω 1/16W	D622	9965 100 05390	TBYW362A/600V
R421		180Ω 5% 1/16-1/6W	R722		CFR 100Ω 1/16W	D623	9965 100 05406	HSRD 200V/3A
R422		680Ω 5% 1/16-1/6W	R723		CFR 75Ω 1/16W	D626	9965 000 40219	
R423	9965 100 07328		R724		CFR 33kΩ 1/16W	D627		1N4148 150mA/100V
R424	9965 000 40689		R725		CFR 10kΩ 1/16W	D761		1N4148 150mA/100V
R425 R432		27kΩ 5% 1/16-1/6W	R727 R728		CFR 100Ω 1/16W CFR 1KΩ 1/16W	D762		1N4148 150mA/100V
R432 R433	9965 000 40491	Fusible Res. 0.33Ω 1W	R729		1.2kΩ 5% 1/16-1/6W	D763	9965 000 40218	1N4148 150mA/100V
R440		Fusible Res. 2.2Ω 2W	R742		13kΩ 5% 1/16-1/6W	-		
R441		56kΩ 5% 1/16-1/6W	R743		13kΩ 5% 1/16-1/6W	се		
R443		CFR 470Ω 1/16W	R744		CFR 47kΩ 1/16W			
R450	9965 100 05160		R745		CFR 47kΩ 1/16W	IC101	9965 100 07701	
R451	9965 100 05160	0.22Ω 5% 2W	R746	9965 000 40701	CFR 47kΩ 1/16W	IC102		8k-BIT IIC EEPROM
R452	9965 100 05395	RESIS 5.6 OHM 1W 5%	R747	9965 000 40701	CFR 47kΩ 1/16W	IC103	9965 000 40249	
R453	9965 000 41086	MOFR 270Ω	R748	9965 000 39979	CFR 150Ω 1/6W	IC104	9965 000 40247	
R454	9965 000 41087		R763		CFR 15kΩ 1/16W	IC301 IC601		TDA4865AJ DBS7P W6556A SANKEN
R457		CFR 100Ω 1/16W	R764		CFR 6.2kΩ 1/16W	IC601		SE120N SANKEN (120V)
R459		CFR 1.8kΩ 1/16W	R765		CFR 1KΩ 1/16W	IC621	9965 000 40601	
R460		CFR 100Ω 1/16W	R766		CFR 47kΩ 1/16W	IC740	9965 000 40596	
R461	9965 000 39985		R768	9965 100 05150		IC760		TFA9842AJ PHILIPS
R462	9965 100 05312	0.82Ω 2W	R769	9965 000 40304	CER 1KO 1/16W			
D 460	0005 000 40400	MOED 2200	D770			IC761	9965 000 40309	HCF4052BF SGS
R463	9965 000 40138		R770	9965 000 40304	CFR 1KΩ 1/16W	IC761 IC762		HCF4052BF SGS HCF4052BF SGS
R464	9965 100 05624	NTC 50kΩ 5%	R771	9965 000 40304 9965 000 39976	CFR 1KΩ 1/16W CFR 10kΩ 1/16W		9965 000 40309	
R464 R466	9965 100 05624 9965 000 40698	NTC 50kΩ 5% CFR 39kΩ 1/16W	R771 R775	9965 000 40304 9965 000 39976 9965 000 40701	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W	IC762	9965 000 40309 9965 100 07712 9965 100 07713	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92
R464 R466 R467	9965 100 05624 9965 000 40698 9965 000 39980	NTC $50 \mathrm{k}\Omega$ 5% CFR $39 \mathrm{k}\Omega$ 1/16W CFR $22 \mathrm{k}\Omega$ 1/8W	R771 R775 R776	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W	IC762 IC851 IC852 Q101	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717
R464 R466	9965 100 05624 9965 000 40698	NTC $50 \mathrm{k}\Omega$ 5% CFR $39 \mathrm{k}\Omega$ 1/16W CFR $22 \mathrm{k}\Omega$ 1/8W MOFR	R771 R775	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 40701	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W	IC762 IC851 IC852 Q101 Q106	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815
R464 R466 R467 R468	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A	R771 R775 R776 R777	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 40701 9965 000 39975	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W	IC762 IC851 IC852 Q101 Q106 Q107	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40232	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815
R464 R466 R467 R468 R469	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W	R771 R775 R776 R777 R778	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40232 9965 000 40234	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y
R464 R466 R467 R468 R469 R501	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 39998	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω	R771 R775 R776 R777 R778 R779 R780 R851	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40234 9965 000 41191	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630
R464 R466 R467 R468 R469 R501 R502 R503 R504	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 39998 9965 000 40491 9965 000 39998	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 270 Ω 1W CFR 270 Ω 1W	R771 R775 R776 R777 R778 R779 R780 R851 R852	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 04839 9965 100 05146	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W 2.2kΩ 5% 1/6W 8.2kΩ 5% 1/16-1/6W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40234 9965 000 40234 9965 000 41191 9965 000 40585	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y
R464 R466 R467 R468 R469 R501 R502 R503 R504 R505	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 39998 9965 000 40000 9965 000 40491 9965 000 39998 9965 000 40509	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 270 Ω 1W CFR 22 Ω 1/4W MOFR 270 Ω	R771 R775 R776 R777 R778 R779 R780 R851 R852 R853	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 04839 9965 100 05146 9965 000 39979	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W 8.2kΩ 5% 1/16-1/6W CFR 150Ω 1/6W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501 Q502	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40234 9965 000 41191 9965 000 40585 9965 000 40239	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V)
R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 39998 9965 000 40491 9965 000 39998 9965 000 40509 9965 000 40509	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 270 Ω 1W CFR 22 Ω 1/4W MOFR 270 Ω MOFR 15k Ω	R771 R775 R776 R777 R777 R778 R779 R780 R851 R852 R853 R854	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 04839 9965 100 05146 9965 000 39979 9965 000 39986	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 10Ω 1/16W CFR 10Ω 1/16W CFR 10Ω 1/16W CFR 150Ω 1/16W CFR 10Ω 1/14W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501 Q502 Q503	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40234 9965 000 41191 9965 000 40239 9965 000 40239 9965 000 40239	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V)
R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 39998 9965 000 40000 9965 000 40491 9965 000 40517 9965 000 40517 9965 000 40129	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 270 Ω 1W CFR 22 Ω 1/4W MOFR 270 Ω MOFR 270 Ω MOFR 270 Ω MOFR 270 Ω MOFR 220 Ω	R771 R775 R776 R7776 R7778 R779 R780 R851 R852 R853 R854 R855	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 04839 9965 100 04839 9965 000 39979 9965 000 39975	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W 2.2kΩ 5% 1/6W 8.2kΩ 5% 1/16-1/6W CFR 150Ω 1/6W CFR 150Ω 1/6W CFR 10Ω 1/4W CFR 10Ω 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501 Q502 Q503 Q504	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40232 9965 000 40232 9965 000 40234 9965 000 41191 9965 000 40585 9965 000 40238 9965 000 40238	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y
R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507 R508	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 39998 9965 000 4000 9965 000 40491 9965 000 40599 9965 000 40517 9965 000 40517 9965 000 40525	NTC $50 \mathrm{k}\Omega$ 5% CFR $39 \mathrm{k}\Omega$ $1/16 \mathrm{W}$ CFR $22 \mathrm{k}\Omega$ $1/8 \mathrm{W}$ MOFR NTC $5/5 \mathrm{A}$ CFR 22Ω $1/4 \mathrm{W}$ CFR $2.2 \mathrm{k}\Omega$ CFR $2.2 \mathrm{k}\Omega$ CFR $2.2 \mathrm{k}\Omega$ W CFR $2.2 \mathrm{k}\Omega$ CFR $2.2 \mathrm{k}\Omega$ CFR $2.2 \mathrm{k}\Omega$ MOFR $2.2 \mathrm{k}\Omega$	R771 R775 R776 R777 R778 R779 R780 R851 R852 R853 R854 R855 R855	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 04839 9965 100 05146 9965 000 39979 9965 000 39975 9965 000 39975	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 10Ω 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501 Q502 Q503 Q504 Q505	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40234 9965 000 40191 9965 000 40585 9965 000 40239 9965 000 40238 9965 000 40239	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V)
R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507 R508 R510	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 39998 9965 000 40491 9965 000 40509 9965 000 40517 9965 000 40525 9965 000 40525 9965 000 40525	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 270 Ω 1W CFR 22 Ω 1/4W MOFR 270 Ω MOFR 15k Ω MOFR 220 Ω CCR 2.7k Ω CFR 22 Ω 1/4W	R771 R775 R776 R777 R778 R779 R780 R851 R852 R853 R854 R854 R855 R856 R856	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 05146 9965 100 05146 9965 000 39979 9965 000 39975 9965 000 39975 9965 000 39976	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501 Q502 Q503 Q504	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40232 9965 000 40232 9965 000 40234 9965 000 40585 9965 000 40239 9965 000 40238 9965 000 40585 9965 000 40585 9965 000 40583 9965 000 40238	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y
R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507 R508 R510 R511	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 40000 9965 000 40491 9965 000 40509 9965 000 40517 9965 000 40517 9965 000 40525 9965 000 40029 9965 000 40000	NTC $50 \mathrm{k}\Omega$ 5% CFR $39 \mathrm{k}\Omega$ 1/16W CFR $22 \mathrm{k}\Omega$ 1/8W MOFR NTC $5/5 \mathrm{A}$ CFR 22Ω 1/4W CFR $2.2 \mathrm{k}\Omega$ CFR 2.2Ω 1/4W CFR 2.2Ω 1/4W MOFR 270Ω 1W CFR 22Ω 1/4W MOFR 25Ω MOFR 25Ω CCR $2.7 \mathrm{k}\Omega$ CFR 22Ω 1/4W CFR 2.2Ω 1/4 1/4W CFR 2.2Ω 1/4 1/4W CFR 2.2Ω 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	R771 R775 R776 R777 R778 R779 R780 R851 R852 R853 R854 R855 R856 R857	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 04839 9965 100 05146 9965 000 39979 9965 000 39975 9965 000 39976 9965 000 39976	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 10Ω 1/16W CFR 150Ω 1/6W CFR 150Ω 1/6W CFR 10Ω 1/16W CFR 100Ω 1/16W CFR 100Ω 1/16W CFR 10kΩ 1/16W CFR 10kΩ 1/16W CFR 10kΩ 1/16W CFR 10kΩ 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q501 Q501 Q502 Q503 Q504 Q505 Q506 Q507 Q508	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40232 9965 000 40232 9965 000 40234 9965 000 41191 9965 000 40239 9965 000 40239 9965 000 40238 9965 000 40239 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40238	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (550V) 2SC4544/3DA4544Y BF423 PNP (-250V)
R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507 R508 R511 R512	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 39998 9965 000 40000 9965 000 40491 9965 000 40509 9965 000 40509 9965 000 40517 9965 000 40129 9965 000 40525 9965 000 39998 9965 000 39998 9965 000 39998	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 2.2k Ω CFR 22 Ω 1/4W MOFR 270 Ω 1W CFR 22 Ω 1/4W MOFR 270 Ω MOFR 15k Ω MOFR 220 Ω CCR 2.7k Ω CFR 22 Ω 1/4W CFR 22 Ω 1/4W CFR 22 Ω 1/4W CFR 2.2k Ω CFR 22 Ω 1/4W	R771 R775 R776 R777 R778 R779 R780 R851 R852 R853 R854 R855 R856 R857 R858 R858 R858	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 05146 9965 100 039979 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 39976	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 10Ω 1/16W CFR 10kΩ 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501 Q502 Q503 Q504 Q505 Q506 Q506 Q507 Q508 Q508	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40237 9965 000 40232 9965 000 40232 9965 000 40234 9965 000 40585 9965 000 40238 9965 000 40238 9965 000 40239 9965 000 40238 9965 000 40238 9965 000 40239 9965 000 40239 9965 000 40239	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) BF422 NPN (250V)
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R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507 R508 R510 R511 R512 R513 R514 R515 R516 R517 R520 R521	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 39998 9965 000 40491 9965 000 40509 9965 000 40517 9965 000 40500 9965 000 40500 9965 000 40500 9965 000 40500 9965 000 40500 9965 000 40500 9965 000 40517 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40500 9965 000 40500	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 2.2k Ω CFR 270 Ω 1W CFR 22 Ω 1/4W MOFR 770 Ω MOFR 15k Ω MOFR 220 Ω CCR 2.7k Ω CFR 22 Ω 1/4W CFR 22 Ω 1/4W CFR 22 Ω 1/4W CFR 22 Ω 1/4W CFR 2.2k Ω CFR 2.2k Ω CFR 2.2k Ω CFR 22 Ω 1/4W CFR 770 Ω 1W MOFR 15k Ω MOFR 270 Ω MOFR 15k Ω MOFR 220 Ω CCR 2.7k Ω CFR 22 Ω 1/4W CFR 270 Ω MOFR 15k Ω MOFR 250 Ω CFR 22 Ω 1/4W CFR 270 Ω CFR 22 Ω 1/4W CFR 270 Ω MOFR 15k Ω MOFR 250 Ω CFR 2.2k Ω CFR 2.2 Ω 1/4W	R771 R775 R776 R777 R778 R779 R780 R851 R852 R853 R854 R855 R856 R857 R858 R860 RL601 VDR601	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 05146 9965 000 39975 9965 000 39975 9965 000 39975 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 40304 9965 100 05413 9965 000 40275	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 15Ω 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 10Ω 1/16W CFR 10KΩ 1/16W	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q501 Q502 Q503 Q504 Q505 Q506 Q507 Q508 Q507 Q508 Q509 Q621 Q622 Q623 Q624 Q625 Q626	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40232 9965 000 40232 9965 000 40234 9965 000 40585 9965 000 40239 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40232 9965 000 40232	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4541Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4541Y BF423 PNP (-250V) 2SC4544/3DA4541Y BF423 PNP (-250V) 2SC4541/3DA4541Y BF423 PNP (250V) 2SC4541/3DA4541Y BF423 PNP (250V) 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC1815Y/2PC1815
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R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507 R508 R510 R511 R512 R513 R514 R515 R516 R517 R520 R521 R522 R523 R524 R525	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 40509 9965 000 40517 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40517 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509 9965 000 40509	NTC 50k Ω 5% CFR 39k Ω 1/16W CFR 22k Ω 1/8W MOFR NTC 5/5A CFR 22 Ω 1/4W CFR 2.2k Ω CFR 2.2k Ω (CFR 270 Ω 1W CFR 22 Ω 1/4W MOFR 270 Ω MOFR 250 Ω CCR 2.7k Ω CFR 22 Ω 1/4W CFR 250 Ω MOFR 15k Ω MOFR 250 Ω CFR 22 Ω 1/4W CFR 270 Ω MOFR 250 Ω CFR 22 Ω 1/4W CFR 270 Ω MOFR 250 Ω CFR 22 Ω 1/4W CFR 270 Ω MOFR 15k Ω	R771 R775 R776 R777 R778 R779 R780 R851 R852 R853 R854 R855 R856 R857 R858 R860 RL601 VDR601 D	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 000 40701 9965 100 05146 9965 100 05146 9965 000 39976 9965 000 39975 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 40304 9965 100 05413 9965 000 40275 9965 000 40252 9965 000 40252 9965 000 40252 9965 100 07718	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 75Ω 1/16W 2.2kΩ 5% 1/6W 8.2kΩ 5% 1/16-1/6W CFR 150Ω 1/16W CFR 150Ω 1/16W CFR 10ΩΩ 1/16W CFR 10ΩΩ 1/16W CFR 10kΩ 1/16W CFR 1	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q501 Q502 Q503 Q504 Q506 Q507 Q508 Q506 Q507 Q508 Q509 Q621 Q622 Q623 Q624 Q625 Q626 Q701 Q702 Q703 Q760 Q761	9965 000 40309 9965 100 07712 9965 100 07713 9965 000 40232 9965 000 40232 9965 000 40234 9965 000 40238 9965 000 40239 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40232 9965 000 40233 9965 000 40233	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4541Y BF423 PNP (-250V) 2SC4544/3DA4541Y BF423 PNP (-250V) 2SC4544/3DA4541Y BF423 PNP (250V) 2SC1815Y/2PC1815
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R464 R466 R467 R468 R469 R501 R502 R503 R504 R505 R506 R507 R508 R511 R512 R511 R512 R513 R514 R515 R516 R517 R522 R523 R524 R522 R523 R524 R525 R526 R527 R528 R529 R600 R601 R602 R604 R605 R606 R607 R608 R607 R608 R609 R610 R621	9965 100 05624 9965 000 40698 9965 000 39980 9965 100 07705 9965 000 40524 9965 000 39998 9965 000 40509 9965 000 40509 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40525 9965 000 40503 9965 000 40503 9965 000 40525 9965 000 40524 9965 000 40524 9965 000 40523 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40524 9965 000 40698 9965 000 40698 9965 000 40698 9965 000 40000 9965 100 05410 9965 100 05410 9965 100 05410	NTC 50kΩ 5% CFR 39kΩ 1/16W CFR 22kΩ 1/8W MOFR NTC 5/5A CFR 22Ω 1/4W CFR 2.2kΩ CFR 270Ω 1W CFR 22Ω 1/4W MOFR 22ΩΩ MOFR 15kΩ MOFR 220Ω CCR 2.7kΩ CFR 22Ω 1/4W CFR 2.2kΩ CFR 270Ω 1W CFR 22ΩΩ CFR 270Ω MOFR 15kΩ MOFR 220Ω CCR 2.7kΩ CFR 22Ω 1/4W CFR 2.2kΩ CFR 22Ω 1/4W CFR 2.2kΩ CFR 22Ω 1/4W CFR 270Ω MOFR 15kΩ MOFR 220Ω CCR 2.7kΩ CFR 22Ω 1/4W CFR 270Ω MOFR 220Ω CCR 2.7kΩ CFR 2.2kΩ	R771 R775 R776 R777 R778 R777 R778 R779 R780 R851 R852 R853 R854 R855 R856 R857 R858 R860 RL601 VDR601	9965 000 40304 9965 000 39976 9965 000 40701 9965 000 40701 9965 000 40701 9965 000 39975 9965 000 39984 9965 100 05146 9965 100 05146 9965 000 39979 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 39976 9965 000 40275 9965 000 40275 9965 000 40252 9965 000 40252 9965 100 07718 9965 000 40252 9965 100 07717 9965 000 40252 9965 100 07717 9965 000 40252 9965 100 07717 9965 000 40252 9965 100 07717 9965 000 40252 9965 100 07718 9965 100 07717 9965 000 40252 9965 100 07717 9965 000 40252 9965 100 07717 9965 000 40254 9965 100 05411 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 000 40254 9965 100 05411	CFR 1KΩ 1/16W CFR 10kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 47kΩ 1/16W CFR 100Ω 1/16W CFR 75Ω 1/16W CFR 75Ω 1/16W 2.2kΩ 5% 1/6W 8.2kΩ 5% 1/6W 8.2kΩ 5% 1/16-1/6W CFR 10ΩΩ 1/16W CFR 10ΩΩ 1/16W CFR 10ΩΩ 1/16W CFR 10ΩΩ 1/16W CFR 10kΩ 1/16W CFR 10	IC762 IC851 IC852 Q101 Q106 Q107 Q401 Q440 Q501 Q502 Q503 Q504 Q505 Q506 Q507 Q508 Q509 Q621 Q622 Q623 Q624 Q625 Q626 Q701 Q702 Q703 Q760 Q761 Q851 N401 Keyboa Various SW001 SW002	9965 000 40309 9965 100 07712 9965 100 07713 9965 100 07713 9965 000 40232 9965 000 40232 9965 000 40234 9965 000 40239 9965 000 40239 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40238 9965 000 40232 9965 100 05199 9965 100 05199 9965 100 05199 9965 100 05199 9965 100 05199	HCF4052BF SGS TDA9850 (IIC Bus) L78L09CZ SGS TO-92 2SC2717 2SC1815Y/2PC1815 2SC2482/3DG2482Y Trans. FQPF630 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4544Y BF423 PNP (-250V) BF422 NPN (250V) 2SC4544/3DA4541Y BF423 PNP (-250V) BF422 NPN (250V) 2SC1815Y/2PC1815

R627 R630 R631 9965 100 05160 0.22Ω 5% 2W 9965 100 05366 6.2kΩ 5% 1/4W 9965 000 40113 CFR 680Ω 9965 000 39988 CFR 1kΩ 1/4W

			Spare Parts List	SK5.0L CA	10.	EN
g 6004	0005 000 40520	22-5 50/				
C001 CR1	9965 000 40529 9965 100 04879	10μF 20% 10V				
f RD1 RD2 RD3 RD4 RD5 RR1	9965 000 39986 9965 000 40003 9965 000 39987 9965 000 40489 9965 000 39989 9965 000 39986	CFR 100Ω CFR 18kΩ 1W CFR 10kΩ 1/4W				
b						
LED	9965 000 40273	LED 3.1mm red				
d D001 M001	9965 000 40221 9965 100 05378	Zener 5V1 1/2W 5% IR Rec. HS0038B 38KHz				
	0000 100 00010					

EN 54 11. SK5.0L CA Revision List

11. Revision List

Manual xxxx xxx xxxx.0

• First release.